

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549**

**FORM 10-Q**

(Mark One)

**QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the quarterly period ended **June 30, 2021**

OR

**TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File Number: **001-38722**

**ORCHARD THERAPEUTICS PLC**

(Exact Name of Registrant as Specified in its Charter)

**England and Wales**  
(State or other jurisdiction of  
incorporation or organization)  
**108 Cannon Street**  
**London, United Kingdom**  
(Address of principal executive offices)

**Not Applicable**  
(I.R.S. Employer  
Identification No.)

**EC4N 6EU**  
(Zip Code)

**Registrant's telephone number, including area code: +44 (0) 203 808-8286**

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
American Depositary Shares, each representing one ordinary share, nominal value £0.10 per share	ORTX	The Nasdaq Global Select Market

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
Emerging growth company	<input type="checkbox"/>		

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

Indicate by check mark whether the registrant has filed all documents and reports required to be filed by Sections 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to the distribution of securities under a plan confirmed by a court. Yes  No

As of July 31, 2021, the registrant had 125,370,865 voting and non-voting ordinary shares, nominal value £0.10 per share, outstanding.

## Summary of the Material Risks Associated with Our Business

Our business is subject to numerous risks and uncertainties that you should be aware of in evaluating our business. These risks include, but are not limited to, the following:

- We have incurred net losses since inception. We expect to incur net losses for the foreseeable future and may never achieve or maintain profitability.
- We will need additional funding, which may not be available on acceptable terms, or at all. Failure to obtain this necessary capital when needed may force us to delay, limit or terminate our product development efforts or other operations.
- Our gene therapy product candidates are based on a novel technology, which makes it difficult to predict the time and cost of product candidate development and of subsequently obtaining regulatory approval.
- The results from our clinical trials for OTL-200 for metachromatic leukodystrophy, or MLD, OTL-103 for Wiskott Aldrich syndrome, or WAS, and for any of our other product candidates may not be sufficiently robust to support marketing approval or the submission of marketing approval. Before we submit our product candidates for marketing approval, the U.S. Food and Drug Administration, or FDA, and/or the European Medicines Agency, or EMA, may require us to conduct additional clinical trials or evaluate patients for an additional follow-up period.
- Interim data and ad hoc analyses are preliminary in nature. Success in preclinical studies or early clinical trials may not be indicative of results obtained in later trials.
- Gene therapies are novel, complex and difficult to manufacture. We have limited manufacturing experience and we rely on third party manufacturers that are often our single source of supply. We could experience manufacturing problems that result in delays in the development or commercialization of our commercial products or our product candidates or otherwise harm our business.
- Libmeldy™, Strimvelis® and our product candidates and the process for administering Libmeldy, Strimvelis and our product candidates may cause serious or undesirable side effects or adverse events or have other properties that could delay or prevent regulatory approval, limit commercial potential or result in significant negative consequences for our company.
- We may find it difficult to enroll patients in our clinical trials, which could delay or prevent us from proceeding with clinical trials of our product candidates.
- If we are unable to establish effective sales and marketing capabilities or enter into agreements with third parties to market, sell and gain reimbursement for Libmeldy and our product candidates that may be approved, we may not be successful in commercializing Libmeldy or our product candidates if and when approved, and we may be unable to generate product revenue.
- If the size and value of the market opportunities for our commercial products or product candidates are smaller than our estimates, or if we have difficulty in finding patients that meet eligibility requirements for Libmeldy, Strimvelis or any of our product candidates, if approved, our product revenues may be adversely affected and our business may suffer.
- We face significant competition in our industry and there can be no assurance that our commercial products or our product candidates, if approved, will achieve acceptance in the market over existing established therapies. In addition, our competitors may develop therapies that are more advanced or effective than ours, which may adversely affect our ability to successfully market or commercialize any of our product candidates.
- Business interruptions resulting from the ongoing COVID-19 pandemic or similar public health crises have caused and may continue to cause a disruption to the development of our product candidates and adversely impact our business.
- We may not be able to protect our intellectual property rights throughout the world.
- We may become subject to claims that we are infringing certain third-party patents, for example, patents relating to lentiviral vectors, or other third-party intellectual property rights, any of which may prevent or delay our development and commercialization efforts and have a material adverse effect on our business.
- We have entered into collaborations with third parties to develop or commercialize product candidates and we may continue to do so in the future. If these collaborations are not successful, our business could be adversely affected.
- The market price of our ADSs may be highly volatile and may fluctuate due to factors beyond our control.

The summary risk factors described above should be read together with the text of the full risk factors below, in the section entitled “Risk Factors” in Part I, Item 1.A. and the other information set forth in this Quarterly Report on Form 10-Q for the period ended June 30, 2021, as well as in other documents that we file with the U.S. Securities and Exchange Commission. The risks summarized above or described in full below are not the only risks that we face. Additional risks and uncertainties not precisely known to us, or that we currently deem to be immaterial may also materially adversely affect our business, financial condition, results of operations and future growth prospects.

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## SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q, or 10-Q, contains express or implied forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, that involve substantial risks and uncertainties. In some cases, forward-looking statements may be identified by the words “may,” “might,” “will,” “could,” “would,” “should,” “expect,” “intend,” “plan,” “objective,” “anticipate,” “believe,” “estimate,” “predict,” “potential,” “continue,” “ongoing,” or the negative of these terms, or other comparable terminology intended to identify statements about the future. These statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, levels of activity, performance or achievements to be materially different from the information expressed or implied by these forward-looking statements. The forward-looking statements and opinions contained in this 10-Q are based upon information available to our management as of the date of this 10-Q, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information. Forward-looking statements contained in this 10-Q include, but are not limited to, statements about:

- the timing, progress and results of clinical trials and preclinical studies for our programs and product candidates, including statements regarding the timing of initiation and completion of trials or studies and related preparatory work, the period during which the results of the trials will become available and our research and development programs;
- the timing, scope or likelihood of regulatory submissions, filings, and approvals;
- our ability to develop and advance product candidates into, and successfully complete, clinical trials;
- our expectations regarding the market opportunity for and size of the patient populations for Libmeldy (OTL-200) and our product candidates, if approved for commercial use;
- the implementation of our business model and our strategic plans for our business, commercial products, product candidates and technology;
- our plans and ability to build out our commercial infrastructure and successfully identify eligible patients, launch, market, and sell Libmeldy in Europe and any current and future product candidates for which we receive marketing approval;
- our commercialization, marketing and manufacturing capabilities and strategy;
- the pricing and reimbursement of Libmeldy, Strimvelis, and any of our product candidates, if approved, including reimbursement for patients treated in a country where they are not resident;
- the adequacy, scalability and commercial viability of our manufacturing capacity, methods and processes, including those of our manufacturing partners, and plans for future development;
- the rate and degree of market acceptance and clinical utility of our commercial products and product candidates, in particular, and gene therapy, in general;
- our ability to establish or maintain collaborations or strategic relationships or obtain additional funding;
- the impact of the COVID-19 global pandemic on our business operations, including clinical trials, regulatory strategy, and the operations of our third-party manufacturers, suppliers, and partners;
- our competitive position;
- the scope of protection we and/or our licensors are able to establish and maintain for intellectual property rights covering our commercial products and product candidates;
- developments and projections relating to our competitors and our industry;
- our estimates regarding expenses, future revenue, capital requirements and needs for additional financing;
- the impact of laws and regulations;
- our ability to attract and retain qualified employees and key personnel;
- our ability to contract with third party suppliers, clinical sites and manufacturers and their ability to perform adequately;
- our projected financial condition, including the sufficiency of our cash, cash equivalents and investments to fund operations in future periods and future liquidity, working capital and capital requirements; and
- other risks and uncertainties, including those listed under the caption “Item 1A. Risk Factors” in this 10-Q.

You should refer to the section titled “Item 1A. Risk Factors” in this 10-Q for a discussion of important factors that may cause our actual results to differ materially from those expressed or implied by our forward-looking statements. As a result of these factors, we cannot be assured that the forward-looking statements in this 10-Q will prove to be accurate. Furthermore, if our forward-looking statements prove to be inaccurate, the inaccuracy may be material. In light of the significant uncertainties in these forward-looking statements, these statements should not be regarded as a representation or warranty by us or any other person that we will achieve our objectives and plans in any specified time frame, or at all. We undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

You should read this 10-Q and the documents that we reference in this 10-Q and have filed as exhibits to this 10-Q completely and with the understanding that our actual future results may be materially different from what we expect. We qualify all of our forward-looking statements by these cautionary statements.

## PART I—FINANCIAL INFORMATION

## Item 1. Financial Statements.

**ORCHARD THERAPEUTICS PLC**  
**Condensed Consolidated Balance Sheets**  
(In thousands, except share and per share amounts)  
(unaudited)

	June 30, 2021	December 31, 2020
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 99,929	\$ 55,135
Marketable securities	169,385	136,813
Trade receivables	—	878
Prepaid expenses and other current assets	17,286	13,365
Research and development tax credit receivable, current	17,589	17,344
Total current assets	304,189	223,535
Non-current assets:		
Operating lease right-of-use-assets	27,874	29,815
Property and equipment, net	4,588	4,781
Research and development tax credit receivable	7,782	—
Restricted cash	4,266	4,266
Other assets	16,059	18,540
Total assets	\$ 364,758	\$ 280,937
<b>Liabilities and shareholders' equity</b>		
Current liabilities:		
Accounts payable	\$ 6,520	\$ 8,823
Accrued expenses and other current liabilities	26,186	28,943
Operating lease liabilities	8,245	8,934
Notes payable, current	—	4,861
Total current liabilities	40,951	51,561
Notes payable, long-term	32,699	20,204
Operating lease liabilities, net of current portion	20,581	24,168
Other long-term liabilities	6,153	6,570
Total liabilities	100,384	102,503
Commitments and contingencies (see Note 13)		
Shareholders' equity:		
Ordinary shares, £0.10 nominal value; 120,667,663 and 98,283,603 ordinary shares issued and outstanding at June 30, 2021 and December 31, 2020, respectively; 3,215,434 and nil non-voting ordinary shares issued and outstanding at June 30, 2021 and December 31, 2020, respectively	16,010	12,507
Additional paid-in capital	925,981	771,194
Accumulated other comprehensive (loss) income	(186)	373
Accumulated deficit	(677,431)	(605,640)
Total shareholders' equity	264,374	178,434
Total liabilities and shareholders' equity	\$ 364,758	\$ 280,937

The accompanying notes are an integral part of these condensed consolidated financial statements.

**ORCHARD THERAPEUTICS PLC**

**Condensed Consolidated Statements of Operations and Comprehensive Loss**

(In thousands, except share and per share amounts)

(unaudited)

	<u>Three Months Ended June 30,</u>		<u>Six Months Ended June 30,</u>	
	<u>2021</u>	<u>2020</u>	<u>2021</u>	<u>2020</u>
Product sales, net	\$ —	\$ 597	\$ —	\$ 597
Costs and operating expenses:				
Cost of product sales	—	191	—	191
Research and development	21,750	31,568	42,785	\$ 56,404
Selling, general and administrative	14,263	15,659	28,314	35,804
Total costs and operating expenses	36,013	47,418	71,099	92,399
Loss from operations	(36,013)	(46,821)	(71,099)	(91,802)
Other income (expense):				
Interest income	113	892	284	2,372
Interest expense	(593)	(568)	(1,131)	(1,181)
Other income (expense), net	634	(943)	1,992	(7,733)
Total other income (expense), net	154	(619)	1,145	(6,542)
Net loss before income tax	(35,859)	(47,440)	(69,954)	(98,344)
Income tax (expense) benefit	(750)	(60)	(1,837)	275
Net loss	(36,609)	(47,500)	(71,791)	(98,069)
Other comprehensive (loss) income				
Foreign currency translation adjustment	(374)	610	(438)	6,643
Unrealized (loss) gain on marketable securities	(8)	1,385	(121)	364
Total other comprehensive (loss) gain	(382)	1,995	(559)	7,007
Total comprehensive loss	\$ (36,991)	\$ (45,505)	\$ (72,350)	\$ (91,062)
Net loss per share, basic and diluted	\$ (0.29)	\$ (0.48)	\$ (0.60)	\$ (0.99)
Weighted average number of ordinary shares outstanding, basic and diluted	125,952,834	99,251,314	120,421,781	99,048,498

The accompanying notes are an integral part of these condensed consolidated financial statements.



ORCHARD THERAPEUTICS PLC

Condensed Consolidated Statements of Cash Flows

(In thousands)  
(unaudited)

	Six Months Ended	
	June 30,	
	2021	2020
<b>Cash flows from operating activities:</b>		
Net loss	\$ (71,791)	\$ (98,069)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation	1,003	1,081
Non-cash share-based compensation	11,809	15,558
Impairment of long-lived assets	—	5,650
Non-cash interest expense	200	254
Non-cash consideration for licenses	—	791
Amortization of Strimvelis loss provision	(814)	(2,018)
Amortization of premium on marketable securities	761	169
Other non-cash adjustments	7,657	6,984
Changes in operating assets and liabilities:		
Trade receivables	893	642
Research and development tax credit receivable	(7,800)	(5,989)
Prepaid expenses, other current assets and other assets	(543)	(3,313)
Operating leases, right-of-use assets	2,518	1,525
Accounts payable, accrued expenses and other current liabilities	(14,341)	(9,644)
Operating lease liabilities	(4,846)	(1,633)
Net cash used in operating activities	<u>(75,294)</u>	<u>(88,012)</u>
<b>Cash flows from investing activities:</b>		
Proceeds from sales and maturities of marketable securities	133,511	168,140
Purchases of marketable securities	(166,966)	(49,494)
Payment of construction deposit	—	(10,000)
Receipt of funds from construction deposit	199	1,876
Purchases of property and equipment	(935)	(2,484)
Net cash (used in) provided by investing activities	<u>(34,191)</u>	<u>108,038</u>
<b>Cash flows from financing activities:</b>		
Proceeds from modification of credit facility, net of debt issuance costs paid	7,375	—
Proceeds from employee equity plans	2,836	2,582
Proceeds from the issuance of ordinary shares in private placement	150,000	—
Payment of placement agent fees and offering costs	(6,355)	—
Net cash provided by financing activities	<u>153,856</u>	<u>2,582</u>
Effect of exchange rate changes on cash, cash equivalents, and restricted cash	423	(485)
Net increase in cash, cash equivalents and restricted cash	44,794	22,123
Cash, cash equivalents, and restricted cash, beginning of period	59,401	23,317
Cash, cash equivalents, and restricted cash, end of period	<u>\$ 104,195</u>	<u>\$ 45,440</u>
<b>Supplemental disclosure of non-cash operating, investing and financing activities</b>		
Property and equipment and intangibles included in accounts payable and accrued expenses	2,860	125
Lease assets obtained in exchange for new operating lease liabilities	386	3,752
Shares issued as part of license agreement	—	791
<b>Supplemental disclosure of cash flow information:</b>		
Cash paid for taxes	1,651	1,321
Cash paid for interest	931	927

The accompanying notes are an integral part of these condensed consolidated financial statements.

**ORCHARD THERAPEUTICS PLC**  
**Condensed Consolidated Statements Shareholders' Equity**  
(In thousands, except share and per share amounts)  
(unaudited)

	Ordinary Shares		Additional Paid-In Capital	Accumulated Other Comprehensive (Loss) Income	Accumulated Deficit	Total
	Shares	Amount				
<b>Balance at December 31, 2019</b>	96,923,729	\$ 12,331	\$ 738,481	\$ 2,042	\$ (453,661)	\$ 299,193
Share-based compensation expense	—	—	9,479	—	—	9,479
Exercise of share options	230,836	30	1,408	—	—	1,438
Foreign currency translation	—	—	—	6,034	—	6,034
Unrealized loss on marketable securities	—	—	—	(1,021)	—	(1,021)
Net loss	—	—	—	—	(50,569)	(50,569)
<b>Balance at March 31, 2020</b>	97,154,565	\$ 12,361	\$ 749,368	\$ 7,055	\$ (504,230)	\$ 264,554
Share-based compensation expense	—	—	6,079	—	—	6,079
Exercise of share options	214,299	27	643	—	—	670
Issuance of ESPP shares	53,462	7	425	—	—	432
Ordinary shares issued as part of license agreements	75,413	10	781	—	—	791
Foreign currency translation	—	—	—	610	—	610
Unrealized gain on marketable securities	—	—	—	1,385	—	1,385
Net loss	—	—	—	—	(47,500)	(47,500)
<b>Balance at June 30, 2020</b>	97,497,739	\$ 12,405	\$ 757,296	\$ 9,050	\$ (551,730)	\$ 227,021
<b>Balance at December 31, 2020</b>	98,283,603	\$ 12,507	\$ 771,194	\$ 373	\$ (605,640)	\$ 178,434
Share-based compensation expense	—	—	6,268	—	—	6,268
Exercise of share options	1,319,493	172	2,650	—	—	2,822
Vesting of restricted share units, net of shares withheld for taxes	45,746	6	(302)	—	—	(296)
Sale of voting and non-voting ordinary shares, net of issuance costs of \$6,289	24,115,755	3,310	140,401	—	—	143,711
Foreign currency translation	—	—	—	(64)	—	(64)
Unrealized loss on marketable securities	—	—	—	(113)	—	(113)
Net loss	—	—	—	—	(35,182)	(35,182)
<b>Balance at March 31, 2021</b>	123,764,597	\$ 15,995	\$ 920,211	\$ 196	\$ (640,822)	\$ 295,580
Share-based compensation expense	—	—	5,541	—	—	5,541
Exercise of share options	15,725	2	7	—	—	9
Issuance of ESPP shares	102,775	13	288	—	—	301
Issuance costs associated with sale of voting and non-voting ordinary shares	—	—	(66)	—	—	(66)
Foreign currency translation	—	—	—	(374)	—	(374)
Unrealized loss on marketable securities	—	—	—	(8)	—	(8)
Net loss	—	—	—	—	(36,609)	(36,609)
<b>Balance at June 30, 2021</b>	123,883,097	\$ 16,010	\$ 925,981	\$ (186)	\$ (677,431)	\$ 264,374

The accompanying notes are an integral part of these condensed consolidated financial statements.

## ORCHARD THERAPEUTICS PLC

### Notes to the Condensed Consolidated Financial Statements (unaudited)

#### 1. Nature of the business

Orchard Therapeutics plc (the “Company”) is a global gene therapy company dedicated to transforming the lives of people affected by severe diseases through the development of innovative, potentially curative gene therapies. The Company’s *ex vivo* autologous hematopoietic stem cell (“HSC”) gene therapy approach utilizes genetically modified blood stem cells and seeks to correct the underlying cause of disease in a single administration. The Company’s gene therapy product candidate pipeline spans multiple therapeutic areas where the disease burden on children, families and caregivers is immense and current treatment options are limited or do not exist.

The Company is a public limited company incorporated pursuant to the laws of England and Wales. The Company has American Depositary Shares (“ADSs”) registered with the U.S. Securities and Exchange Commission (the “SEC”) and has been listed on the Nasdaq Global Select Market since October 31, 2018. The Company’s ADSs each represent one ordinary share of the Company.

In December 2020, the Company received standard marketing authorization from the European Commission for Libmeldy™ (atidarsagene autotemcel), for the treatment of early onset metachromatic leukodystrophy (“MLD”), characterized by biallelic mutations in the *arylsulfatase-A (ARSA)* gene leading to a reduction of the ARSA enzymatic activity in children with (i) late infantile or early juvenile forms, without clinical manifestations of the disease, or (ii) the early juvenile form, with early clinical manifestations of the disease, who still have the ability to walk independently and before the onset of cognitive decline.

On February 9, 2021, the Company issued and sold (i) 20,900,321 ordinary shares, nominal value £0.10 per share, at a purchase price of \$6.22 per share (the “Purchase Price”), which was the closing sale price of the Company’s ADSs on the Nasdaq Global Select Market on February 4, 2021, and (ii) 3,215,434 non-voting ordinary shares, nominal value £0.10 per share, at the Purchase Price (together (i) and (ii) the “Private Placement”). The Private Placement resulted in net proceeds to the Company of \$143.6 million after deducting placement agent fees of \$6.0 million and other issuance costs of \$0.4 million. The ordinary shares and non-voting ordinary shares were sold pursuant to a securities purchase agreement entered into between the Company and the purchasers named therein on February 4, 2021.

The Company’s business is subject to risks and uncertainties common to development-stage companies in the biotechnology industry. There can be no assurance that the Company’s research and development will be successfully completed, that adequate protection for the Company’s technology will be obtained, that any products developed will obtain necessary government regulatory approval or that any products, if approved, will be commercially viable. The Company operates in an environment of rapid technological innovation and substantial competition from pharmaceutical and biotechnology companies. In addition, the Company is dependent upon the services of its employees, consultants and service providers. Even if the Company’s product development efforts are successful in gaining regulatory approval, it is uncertain when, if ever, the Company will realize significant revenue from product sales.

Through June 30, 2021, the Company funded its operations primarily with proceeds from the sale of convertible preferred shares, ADSs in the Company’s initial public offering (the “IPO”) and follow-on offering, ordinary shares in the Private Placement, proceeds from share issuances from employee equity plans, receipts from the United Kingdom (“UK”) research and development tax credit, and reimbursements from our research agreements with the University of California (“UCLA”) and the California Institute of Regenerative Medicine (“CIRM”). The Company has incurred recurring losses since its inception. As of June 30, 2021, the Company had an accumulated deficit of \$677.4 million. The Company expects to continue to generate operating losses for the foreseeable future. The Company expects that its cash, cash equivalents, and marketable securities on hand as of June 30, 2021 of \$269.3 million, will be sufficient to fund its operations and capital expenditure requirements through at least the next twelve months.

The Company will seek additional funding through private or public equity financings, debt financings, collaborations, strategic alliances and marketing, distribution or licensing arrangements. The Company may not be able to obtain financing on acceptable terms, or at all, and the Company may not be able to enter into collaborations or other arrangements. The terms of any financing may adversely affect the holdings or the rights of the Company’s shareholders. The future viability of the Company is dependent on its ability to raise additional capital to finance its operations. If the Company is unable to obtain funding, the Company will be forced to delay, reduce or eliminate some or all of its research and development programs, product portfolio expansion or commercialization efforts, which could adversely affect its business prospects, or the Company may be unable to continue operations. Although management continues to pursue these plans, there is no assurance that the Company will be successful in obtaining sufficient funding on terms acceptable to the Company to fund continuing operations, if at all.

## **2. Basis of presentation and summary of significant accounting policies**

### ***Basis of presentation***

The condensed consolidated interim financial statements of the Company are unaudited and have been prepared in accordance with generally accepted accounting principles in the United States of America (“U.S. GAAP”) for interim financial reporting and in accordance with Regulation S-X, Rule 10-01. Accordingly, they do not include all of the information and footnotes required by U.S. GAAP for complete financial statements. Any reference in these notes to applicable guidance is meant to refer to the authoritative U.S. GAAP as found in the Accounting Standards Codification (“ASC”), and Accounting Standards Update (“ASU”), of the Financial Accounting Standards Board (“FASB”). All intercompany accounts and transactions between the Company and its subsidiaries have been eliminated upon consolidation.

The accompanying unaudited condensed consolidated interim financial statements should be read in conjunction with the audited consolidated financial statements and accompanying notes included in the Company’s Annual Report on Form 10-K filed with the SEC on March 2, 2021 (the “Annual Report”). The condensed consolidated balance sheet as of December 31, 2020 was derived from audited consolidated financial statements included in the Company’s Annual Report but does not include all disclosures required by U.S. GAAP.

Certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. GAAP have been condensed or omitted from these interim financial statements. However, these interim financial statements include all adjustments, consisting only of normal recurring adjustments, which are, in the opinion of the Company’s management, necessary to fairly state the results of the interim period. The interim results are not necessarily indicative of results to be expected for the full year.

Amounts reported are computed based on thousands, except percentages, per share amounts or as otherwise noted. As a result, certain totals may not sum due to rounding.

### ***Use of estimates***

The preparation of condensed consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the condensed consolidated financial statements and the reported amounts of revenue and expenses during the reporting periods. Significant estimates and assumptions reflected in these condensed consolidated financial statements include, but are not limited to, the accrual for research and development expenses, the research and development tax credit receivable, share-based compensation, operating lease assets and liabilities, and income taxes. Estimates are periodically reviewed in light of changes in circumstances, facts and experience. The future developments of the COVID-19 pandemic may also directly or indirectly impact the Company’s business, including impacts due to quarantines, border closures, increased border controls, travel restrictions, shelter-in-place orders and shutdowns, business closures, cancellations of public gatherings and other measures. Actual results could differ from the Company’s estimates.

### ***Foreign currency***

The financial statements of the Company’s subsidiaries with functional currencies other than the U.S. Dollar are translated into U.S. Dollars using period-end exchange rates for assets and liabilities, historical exchange rates for shareholders’ equity and weighted average exchange rates for operating results. Translation gains and losses are included in accumulated other comprehensive income (loss) in shareholders’ equity. Foreign currency transaction gains and losses are included in other income (expense), net in the results of operations. The Company recorded realized and unrealized foreign currency transaction gains of \$0.6 million and gains of \$0.9 million for the three months ended June 30, 2021 and 2020, respectively. The Company recorded realized and unrealized foreign currency transaction gains of \$2.0 million and losses of \$7.4 million for the six months ended June 30, 2021 and 2020, respectively. These amounts are included in other income (expense) in the condensed consolidated statements of operations and comprehensive loss.

### ***Cash and cash equivalents***

The Company considers all highly liquid investments purchased with original maturities of 90 days or less at acquisition to be cash equivalents.

### ***Marketable securities***

Marketable securities consist of investments with original maturities greater than ninety days. The Company has classified its investments with maturities beyond one year as short term, based on their highly liquid nature and because such marketable securities represent the investment of cash that is available for current operations. The Company considers its investment portfolio of investments as available-for-sale. Accordingly, these investments are recorded at fair value, which is based on quoted market prices or other observable inputs. Unrealized gains and losses are recorded as a component of other comprehensive income (loss). Realized gains and losses are determined on a specific identification basis and are included in other income (loss). Amortization and accretion of discounts and premiums is also recorded in other income (loss).

When the fair value is below the amortized cost of the asset, an estimate of expected credit losses is made and is limited to the amount by which fair value is less than amortized cost. The credit-related impairment amount is recognized in net income; the remaining impairment amount and unrealized gains are reported as a component of accumulated other comprehensive income (loss) in shareholders' equity. Credit losses are recognized through the use of an allowance for credit losses account and subsequent improvements in expected credit losses are recognized as a reversal of the allowance account. If the Company has the intent to sell the security or it is more likely than not that the Company will be required to sell the security prior to recovery of its amortized cost basis the allowance for credit loss is written off and the excess of the amortized cost basis of the asset over its fair value is recorded in net income.

### ***United Kingdom research and development tax credit***

As a company that carries out research and development activities, the Company is able to submit tax credit claims from two UK research and development tax relief programs, the Small and Medium-sized Enterprises research and development tax credit ("SME") program and the Research and Development Expenditure Credit ("RDEC") program depending on eligibility. Qualifying expenditures largely comprise employment costs for research staff, consumables and certain internal overhead costs incurred as part of research projects for which the Company does not receive income.

Each reporting period, management evaluates which tax relief programs the Company is expected to be eligible for and records a reduction to research and development expense for the portion of the expense that it expects to qualify under the programs, that it plans to submit a claim for, and it has reasonable assurance that the amount will ultimately be realized. Based on criteria established by HM Revenue and Customs ("HMRC"), management of the Company expects a proportion of expenditures being undertaken in relation to its pipeline research, clinical trials management and manufacturing development activities to be eligible for the research and development tax relief programs for the year ended December 31, 2021. The Company has qualified under the more favorable SME regime for the year ended December 31, 2020 and expects to qualify under the SME regime for the year ending December 31, 2021.

The RDEC and SME credits are not dependent on the Company generating future taxable income or on the ongoing tax status or tax position of the Company. The Company has assessed its research and development activities and expenditures to determine whether the nature of the activities and expenditures will qualify for credit under the tax relief programs and whether the claims will ultimately be realized based on the allowable reimbursable expense criteria established by the UK government which are subject to interpretation. At each period end, the Company estimates the reimbursement available to the Company based on available information at the time.

The Company recognizes credits from the research and development incentives when the relevant expenditure has been incurred and there is reasonable assurance that the reimbursement will be received. Such credits are accounted for as reductions in research and development expense in the condensed consolidated statement of operations and comprehensive loss. The following table below outlines the changes to the research and development tax credit receivable, including amounts recognized as an offset to research and development expense during the period, for the periods ended June 30, 2021 and 2020:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2021	2020	2021	2020
Balance at beginning of period	\$ 21,044	\$ 30,211	\$ 17,344	\$ 28,644
Recognition of credit claims as offset to research and development expense	4,246	3,614	7,800	7,031
Receipt of credit claims	—	(1,015)	—	(1,015)
Foreign currency translation	81	(81)	227	(1,931)
Balance at end of period	\$ 25,371	\$ 32,729	\$ 25,371	\$ 32,729

As of June 30, 2021, the Company's tax incentive receivable from the U.K. government was \$25.4 million, of which \$17.6 million was classified as current and \$7.8 million was classified as noncurrent. As of December 31, 2020, the Company's tax incentive receivable from the U.K. government was \$17.3 million, all of which was classified as current.

#### **Restricted cash and construction deposits**

Cash and cash equivalents that are restricted as to withdrawal or use under the terms of certain contractual agreements are recorded as restricted cash on the Company's condensed consolidated balance sheet. The Company has an outstanding letter of credit for \$3.0 million associated with a lease, and is required to hold this amount in a standalone bank account, as of June 30, 2021 and December 31, 2020. The Company is also contractually required to maintain cash collateral accounts associated with corporate credit cards and other leases in the amount of \$1.3 million at June 30, 2021 and December 31, 2020.

The Company includes the restricted cash balance in cash and cash equivalents when reconciling beginning-of-period and end-of-period total amounts shown on the condensed consolidated statements of cash flows. The following table provides a reconciliation of cash, cash equivalents, and restricted cash reported in the condensed consolidated balance sheet that sum to the total of the amounts reported in the unaudited condensed consolidated statement of cash flows:

	June 30,	December 31,
	2021	2020
	(in thousands)	
Cash and cash equivalents	\$ 99,929	\$ 55,135
Restricted cash	4,266	4,266
Total cash, cash equivalents and restricted cash shown in the statement of cash flows	\$ 104,195	\$ 59,401

The Company also has \$7.9 million in an escrow account associated with the construction of the Company's leased facility in Fremont, California, which the Company has ceased construction and build-out, and has subleased the facility to a third-party who intends to perform construction and build-out of the facility. Subject to the terms of the lease and reduction provisions, this amount may be decreased to nil over time upon qualifying construction expenditure, or will be returned in late 2022 to the extent funds are not used. The Company deposited \$10.0 million into the account in the first quarter of 2020 and has received \$2.1 million in receipts from the escrow funds for work performed to date. Of the \$7.9 million remaining in the escrow account, \$5.0 million is classified within other prepaid expenses and other current assets and \$2.9 million is classified within other assets on the condensed consolidated balance sheet based on the timing of when the Company expects to receive the cash from the escrow agent.

#### **Product sales**

The Company's product sales of Strimvelis are currently distributed exclusively at the San Raffaele Hospital in Milan, Italy. San Raffaele Hospital will purchase and pay for Strimvelis and submit a claim to the payer. The Company's contracted sales with San Raffaele Hospital contain a single performance obligation and the Company recognizes revenue from product sales when the Company has satisfied its performance obligation by transferring control of Strimvelis to San Raffaele Hospital. Control of the product generally transfers upon the completion of the scheduled Strimvelis treatment. The Company's product sales represent total net product sales of Strimvelis. The Company evaluated the variable consideration under Accounting Standards Codification (ASC) 606, *Revenue from Contracts with Customers*, and there is currently no variable consideration included in the transaction price for Strimvelis. Costs to manufacture and deliver the product and those associated with administering the therapy are included in cost of product sales. As the product is sold in direct relation to a scheduled treatment, the Company estimates that there is limited risk of

product return, including the risk of product expiration. During the three months and six months ended June 30, 2021, the Company had no sales of Strimvelis.

#### ***Research and development costs***

Research and development costs are expensed as incurred. Research and development expenses consist of costs incurred in performing research and development activities, including salaries, share-based compensation and benefits, facilities costs, depreciation, third-party license fees, certain milestone payments, and external costs of outside vendors engaged to conduct preclinical and clinical development activities and clinical trials, as well as costs to develop a manufacturing process, perform analytical testing and manufacture clinical trial materials. Non-refundable prepayments for goods or services that will be used or rendered for future research and development activities are recorded as prepaid expenses. Such amounts are recognized as an expense as the goods are delivered or the related services are performed, or until it is no longer expected that the goods will be delivered, or the services rendered. In addition, funding from research grants is recognized as an offset to research and development expense on the basis of costs incurred on the research program. Royalties to third parties associated with research grants will be accrued when they become probable.

#### ***Research agreement costs and accruals***

The Company has entered into various research and development contracts. These agreements are cancelable, and related costs are recorded as research and development expenses as incurred. When billing terms under these contracts do not coincide with the timing of when the work is performed, the Company is required to make estimates of outstanding obligations as of period end to those third parties. Any accrual estimates are based on a number of factors, including the Company's knowledge of the progress towards completion of the research and development activities, invoicing to date under the contracts, communication from the research institution or other companies of any actual costs incurred during the period that have not yet been invoiced, and the costs included in the contracts. Significant judgments and estimates may be made in determining the accrued balances at the end of any reporting period. Actual results could differ from the estimates made by the Company. The historical accrual estimates made by the Company have not been materially different from the actual costs.

#### ***Share-based compensation***

The Company measures share-based awards granted to employees, consultants and directors based on the fair value of the shares and options on the date of the grant and recognizes compensation expense for those awards over the requisite service period, which is the vesting period of the respective award. Forfeitures are accounted for as they occur.

#### ***Comprehensive loss***

Comprehensive loss is composed of net loss and other comprehensive (loss) income. Other comprehensive (loss) income consists of unrealized gains and losses on marketable securities and foreign currency translation.

#### ***Leases***

The Company determines if an arrangement is a lease at contract inception. Operating lease assets represent a right to use an underlying asset for the lease term and operating lease liabilities represent an obligation to make lease payments arising from the lease. Operating lease liabilities with a term greater than one year and their corresponding right-of-use assets are recognized on the balance sheet at the commencement date of the lease based on the present value of lease payments over the expected lease term. Certain adjustments to the right-of-use asset may be required for items such as initial direct costs paid or incentives received. The Company made an accounting policy election to not record a right-of-use asset or lease liability for leases with a term of one year or less. To date, the Company has not identified any material short-term leases, either individually or in the aggregate.

As the Company's leases do not provide an implicit rate, the Company utilized the appropriate incremental borrowing rate, which is the rate incurred to borrow on a collateralized basis over a similar term an amount equal to the lease payments in a similar economic environment. The Company estimated the incremental borrowing rate based on the Company's currently outstanding credit facility as inputs to the analysis to calculate a spread, adjusted for factors that reflect the profile of secured borrowing over the expected term of the lease.

The components of a lease should be split into three categories: lease components (e.g., land, building, etc.), non-lease components (e.g., common area maintenance, utilities, performance of manufacturing services, purchase of inventory, etc.), and non-components (e.g., property taxes, insurance, etc.). Then the fixed contract consideration (including any related to non-components) must be allocated based on fair values to the lease components and non-lease components. Although separation of lease and non-lease components is required, certain practical expedients are available to entities. Entities electing the practical expedient would not separate lease and non-lease components. Rather, they would account for each lease component and the related non-lease component

together as a single component. The Company has elected not to apply the practical expedient and with respect to its lease of manufacturing space at a contract manufacturing organization, the Company has instead allocated the consideration between the lease and non-lease components of the contract. The Company calculated the fair value of the lease component using financial information readily available as part of its master services arrangement. The remainder of the consideration was allocated to the non-lease components.

The Company accounts for sublease income on a straight-line basis over the respective lease period and records an unbilled rent receivable for sublease income incurred but not yet paid. The Company periodically performs a collectability assessment associated with any unbilled rent receivables. The Company recognizes the sublease income as a reduction to the related operating expense associated with the head lease.

#### **Impairment of long-lived assets**

Long-lived assets consist of property and equipment and operating lease right-of-use assets. Long-lived assets to be held and used are tested for recoverability whenever events or changes in business circumstances indicate that the carrying amount of the assets may not be fully recoverable. Factors that the Company considers in deciding when to perform an impairment review include significant underperformance of the business in relation to expectations, significant negative industry or economic trends and significant changes or planned changes in the use of the assets. If an impairment review is performed to evaluate a long-lived asset group for recoverability, the Company compares forecasts of undiscounted cash flows expected to result from the use and eventual disposition of the long-lived asset group to its carrying value. An impairment loss would be recognized when estimated undiscounted future cash flows expected to result from the use of an asset group are less than its carrying amount. The impairment loss would be based on the excess of the carrying value of the impaired asset group over its fair value, as determined in accordance with the related accounting literature.

#### **Strimvelis loss provision**

As part of the GSK transaction, the Company is required to maintain commercial availability of Strimvelis in the European Union until such time that an alternative gene therapy is available (see Note 11). Strimvelis is not currently expected to generate sufficient cash flows to overcome the costs of maintaining the product and certain regulatory commitments; therefore, the Company initially recorded a liability associated with the loss contract of \$18.4 million in 2018. The Company recognizes the amortization of the loss provision on a diminishing balance basis based on the actual net loss incurred associated with the Strimvelis program and the expected future net losses to be generated until such time as Strimvelis is no longer commercially available. The amortization of the provision is recorded as a credit to research and development expense. The Company has made an estimate of the expected future losses associated with Strimvelis and will adjust this estimate as facts and circumstances change regarding the commercial availability and costs of maintaining and selling Strimvelis. The Company does not update the accrued loss provision for any subsequent adjustment of the future losses, however, the timing of recognizing the amortization of what was originally recorded is adjusted for the updated future losses.

The following table below outlines the changes to the Strimvelis loss provision for the periods ended June 30, 2021 and 2020:

	<b>Three Months Ended June 30,</b>		<b>Six Months Ended June 30,</b>	
	<b>2021</b>	<b>2020</b>	<b>2021</b>	<b>2020</b>
Balance at beginning of period	\$ 4,076	\$ 4,751	\$ 4,482	\$ 6,790
Amortization of loss provision	\$ (368)	\$ (349)	\$ (814)	\$ (2,018)
Foreign currency translation	28	(10)	68	(380)
Balance at end of period	<u>\$ 3,736</u>	<u>\$ 4,392</u>	<u>\$ 3,736</u>	<u>\$ 4,392</u>

Of the balance as of June 30, 2021 noted in the table above, \$0.6 million is classified as current, and \$3.1 million is classified as non-current.



### Net loss per share

Basic net loss per share is computed by dividing the net loss by the weighted average number of voting and non-voting ordinary shares outstanding for the period. Diluted net loss is computed by adjusting net loss based on the potential impact of dilutive securities. Diluted net loss per share is computed by dividing the diluted net loss by the weighted average number of ordinary shares outstanding for the period, including potential dilutive ordinary shares. For purpose of this calculation, outstanding options and unvested restricted shares are considered potential dilutive ordinary shares. Since the Company was in a loss position for all periods presented, basic net loss per share is the same as diluted net loss per share for all periods as the inclusion of all potential ordinary share equivalents outstanding would have been anti-dilutive.

The following securities, presented based on amounts outstanding at each period end, are considered to be ordinary share equivalents, but were not included in the computation of diluted net loss per ordinary share because to do so would have been anti-dilutive:

	As of June 30,	
	2021	2020
Share options	12,625,435	12,343,287
Unvested performance-based restricted share units	692,668	680,824
	<u>13,318,103</u>	<u>13,024,111</u>

### Recently adopted accounting pronouncements

In December 2019, the FASB issued ASU No. 2019-12, *Simplifying the Accounting for Income Taxes (Topic 740)*, which removes certain exceptions to the general principles in Topic 740 – *Income Taxes* and improves consistent application of and simplifies GAAP for other areas of Topic 740 by clarifying and amending existing guidance. This ASU was adopted by the Company beginning January 1, 2021 and did not have a material impact on our condensed consolidated financial statements.

### 3. Fair value measurements and marketable securities

The following tables present information about the Company's financial assets that have been measured at fair value as of June 30, 2021 and indicate the fair value of the hierarchy of the valuation inputs utilized to determine such fair value. In general, fair values determined by Level 1 inputs utilize quoted prices (unadjusted) in active markets for identical assets or liabilities. Fair value determined by Level 2 inputs utilize observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities, quoted market prices in markets that are not active or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the related assets or liabilities. Fair values determined by Level 3 inputs are unobservable data points for the asset or liability, and include situations where there is little, if any, market activity for the asset or liability. During the three months and six months ended June 30, 2021, there were no transfers between Level 1 and Level 2 financial assets.

The following table summarizes the Company's cash equivalents and marketable securities as of June 30, 2021:

	Fair Value Measurements at June 30, 2021 Using:			
	Level 1	Level 2	Level 3	Total
<b>Cash equivalents</b>				
Money market funds	\$ 58,348	\$ —	\$ —	\$ 58,348
Commercial paper	—	9,998	—	9,998
Total cash equivalents	<u>\$ 58,348</u>	<u>\$ 9,998</u>	<u>\$ —</u>	<u>\$ 68,346</u>
<b>Marketable securities</b>				
Corporate bonds	\$ —	\$ 88,416	\$ —	\$ 88,416
Commercial paper	—	80,969	—	80,969
Total marketable securities	<u>\$ —</u>	<u>\$ 169,385</u>	<u>\$ —</u>	<u>\$ 169,385</u>
<b>Total</b>	<u>\$ 58,348</u>	<u>\$ 179,383</u>	<u>\$ —</u>	<u>\$ 237,731</u>

The following table summarizes the Company's cash equivalents and marketable securities as of December 31, 2020:

	Fair Value Measurements at December 31, 2020 Using:			
	Level 1	Level 2	Level 3	Total
<b>Cash equivalents</b>				
Money market funds	\$ 6,650	\$ —	\$ —	\$ 6,650
Corporate bonds	—	3,001	—	3,001
Commercial paper	—	2,999	—	2,999
<b>Total cash equivalents</b>	<b>\$ 6,650</b>	<b>\$ 6,000</b>	<b>\$ —</b>	<b>\$ 12,650</b>
<b>Marketable securities</b>				
U.S. government securities	\$ —	\$ 2,997	\$ —	\$ 2,997
Corporate bonds	—	93,358	—	93,358
Commercial paper	—	40,458	—	40,458
<b>Total marketable securities</b>	<b>\$ —</b>	<b>\$ 136,813</b>	<b>\$ —</b>	<b>\$ 136,813</b>
<b>Total</b>	<b>\$ 6,650</b>	<b>\$ 142,813</b>	<b>\$ —</b>	<b>\$ 149,463</b>

The carrying amount reflected in the condensed consolidated balance sheets for research and development tax incentive receivable, trade receivables, accounts payable, and accrued expenses approximate fair value due to their short-term maturities. The carrying value of the Company's outstanding notes payable approximates fair value (a Level 2 fair value measurement), reflecting interest rates currently available to the Company.

#### Marketable securities

The following table summarizes the Company's marketable securities as of June 30, 2021:

	At June 30, 2021				
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Credit Losses	Fair Value
Corporate bonds	\$ 88,452	\$ 9	\$ (45)	\$ —	\$ 88,416
Commercial paper	90,968	5	(6)	—	90,967
<b>Total</b>	<b>\$ 179,420</b>	<b>\$ 14</b>	<b>\$ (51)</b>	<b>\$ —</b>	<b>\$ 179,383</b>

The following table summarizes the Company's marketable securities as of December 31, 2020:

	At December 31, 2020				
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Credit Losses	Fair Value
U.S. government securities	\$ 3,000	\$ —	\$ (4)	\$ —	\$ 2,996
Corporate bonds	96,259	133	(32)	-	96,360
Commercial paper	43,469	1	(13)	-	43,457
<b>Total</b>	<b>\$ 142,728</b>	<b>\$ 134</b>	<b>\$ (49)</b>	<b>\$ -</b>	<b>\$ 142,813</b>

The following table summarizes the Company's available-for-sale debt securities by contractual maturity, as of June 30, 2021 and December 31, 2020

	At June 30, 2021	At December 31, 2020
Due in one year	\$ 163,335	\$ 132,056
Due after one year through three years	16,048	10,757
<b>Total</b>	<b>\$ 179,383</b>	<b>\$ 142,813</b>

#### 4. Prepaid expenses and other current assets

Prepaid expenses and other current assets consist of the following:

	<u>June 30,</u> <u>2021</u>	<u>December 31,</u> <u>2020</u>
Prepaid external research and development expenses	\$ 3,022	\$ 1,421
Inventories	1,559	665
Other prepayments	3,513	4,930
VAT receivable	1,202	2,780
Construction deposit - current	4,969	1,552
Non-trade receivables	3,021	2,017
Total prepaid expenses and other current assets	<u>\$ 17,286</u>	<u>\$ 13,365</u>

#### 5. Property and equipment, net

Property and equipment, net consisted of the following:

	<u>June 30,</u> <u>2021</u>	<u>December 31,</u> <u>2020</u>
Property and equipment:		
Lab equipment	\$ 5,342	\$ 5,114
Leasehold improvements	2,495	2,522
Furniture and fixtures	305	304
Office and computer equipment	1,189	763
Construction-in-process	508	302
Property and equipment	<u>\$ 9,839</u>	<u>\$ 9,005</u>
Less: accumulated depreciation	(5,251)	(4,224)
Property and equipment, net	<u>\$ 4,588</u>	<u>\$ 4,781</u>

Depreciation expense was \$0.5 million and \$0.6 million for the three months ended June 30, 2021 and 2020, respectively. Depreciation expense was \$1.0 million and \$1.1 million for the six months ended June 30, 2021 and 2020, respectively. During the second quarter of 2020, the Company took impairment charges of \$2.3 million related to construction-in-process and \$0.8 million related to laboratory equipment (see Note 10).

#### 6. Other assets

Other assets consist of the following:

	<u>June 30,</u> <u>2021</u>	<u>December 31,</u> <u>2020</u>
Intangible assets - license milestones	\$ 4,931	\$ 3,076
Deferred tax assets	3,855	5,219
Deposits	1,025	1,144
Deferring financing costs	720	975
Other non-current assets	2,571	1,554
Construction deposits - long-term	2,957	6,572
Total other assets	<u>\$ 16,059</u>	<u>\$ 18,540</u>

## 7. Accrued expenses and other current liabilities

Accrued expenses and other liabilities consisted of the following:

	June 30, 2021	December 31, 2020
Accrued external research and development expenses	\$ 10,395	\$ 8,878
Accrued payroll and related expenses, including severance	8,347	11,881
Accrued professional fees	1,140	791
Accrued other	3,053	3,401
Accrued milestone payments	2,615	3,076
Strimvelis liability - current portion	636	916
Total accrued expenses and other liabilities	<u>\$ 26,186</u>	<u>\$ 28,943</u>

## 8. Notes payable

In May 2019, the Company entered into a senior term facilities agreement, which was amended in April 2020 (the "Original Credit Facility") with MidCap Financial (Ireland) Limited ("MidCap Financial"), as agent, and additional lenders from time to time (together with MidCap Financial, the "Lenders"), to borrow up to \$75.0 million in term loans.

In May 2021, the Company amended and restated the Original Credit Facility (the "Amended Credit Facility"). Under the Amended Credit Facility, the Lenders agreed to make term loans available to the Company in the aggregate amount of \$100.0 million, including increasing the principal on the initial term loan to \$33.0 million, from \$25.0 million. To date, the Company has borrowed \$33.0 million under the amended initial term loan. The remaining \$67.0 million under the Amended Credit Facility may be drawn down in the form of a second and third term loan, the second term loan being a \$33.0 million term loan available no earlier than July 1, 2022 and no later than July 1, 2023 upon certain regulatory approvals and evidence of the Company having \$100 million in cash and cash equivalent investments; and the third term loan being a \$34.0 million term loan available no earlier than July 1, 2023 and no later than July 1, 2024 upon evidence of the Company having \$100 million in cash and cash equivalent investments and attaining a pre-specified trailing 12-month revenue target.

Prior to execution of the Amended Credit Facility, each term loan under the Original Credit Facility bore interest at an annual rate equal to 6.0% plus LIBOR. The Company was required to make interest-only payments on the term loan for all payment dates prior to 24 months following the date of the Original Credit Facility, unless the third tranche was drawn, in which case for all payment dates prior to 36 months following the date of the Original Credit Facility. The term loans prior to the Amended Credit Facility were to begin amortizing on either the 24-month or the 36-month anniversary of the Original Credit Facility (as applicable), with equal monthly payments of principal plus interest to be made by the Borrower to the Lenders in consecutive monthly installments until the loan maturity date. In addition, a final payment of 4.5% was due on the loan maturity date. The Company accrued the final payment amount of \$1.1 million associated with the first term loan of the Original Credit Facility, to outstanding debt by charges to interest expense using the effective-interest method from the date of issuance through the date of the Amended Credit Facility. Upon execution of the Amended Credit Facility, the Company was required to make a payment of \$0.5 million for the accrued final payment associated with the Original Credit Facility, which was netted against proceeds from the additional initial term loan.

Each term loan under the Amended Credit Facility bears interest at an annual rate equal to 5.95% plus LIBOR. The Company is required to make interest-only payments on the term loan for 18 months following the date of the Amended Credit Facility, unless the Company is eligible for the second tranche, in which case the Company may elect to make interest-only payments for 30 months following the date of the Amended Credit Facility. The term loans under the Amended Credit Facility begin amortizing on either the 18-month or the 30-month anniversary of the Amended Credit Facility (as applicable), with equal monthly payments of principal plus interest to be made by the Company to the Lenders in consecutive monthly installments until the loan maturity date. In addition, a final payment of 3.5% is due on the loan maturity date. The Company is accruing the final payment amount of \$1.2 million associated with the first term loan of the Amended Credit Facility, to outstanding debt by charges to interest expense using the effective-interest method from the date of issuance through the loan maturity date.

The Amended Credit Facility includes affirmative and negative covenants. The affirmative covenants include, among others, covenants requiring the Company to maintain their legal existence and governmental approvals, deliver certain financial reports, maintain insurance coverage, maintain property, pay taxes, satisfy certain requirements regarding accounts and comply with laws and regulations. The negative covenants include, among others, restrictions on the Company transferring collateral, incurring additional indebtedness, engaging in mergers or acquisitions, paying dividends or making other distributions, making investments, creating liens, amending material agreements and organizational documents, selling assets, changing the nature of the business and undergoing a change in control, in some cases subject to certain exceptions. The Company is also subject to an ongoing minimum cash financial covenant in which the Company must maintain unrestricted cash in an amount not less than \$20.0 million following the utilization of the second term loan and not less than \$35.0 million following the utilization of the third term loan.

As of June 30, 2021 and December 31, 2020, notes payable consist of the following:

	<u>June 30,</u> <u>2021</u>	<u>December 31,</u> <u>2020</u>
Notes payable, net of issuance costs	\$ 32,625	\$ 24,659
Less: current portion	\$ —	(4,861)
Notes payable, net of current portion	\$ 32,625	\$ 19,798
Accretion related to final payment	74	406
Notes payable, long term	<u>\$ 32,699</u>	<u>\$ 20,204</u>

As of June 30, 2021, the estimated future principal payments due are as follows:

	<u>Aggregate Minimum Payments</u>
2021 (July - December)	—
2022	785
2023	9,429
2024	9,429
2025	9,429
Thereafter	5,083
Total	<u>34,155</u>
Less current portion	—
Less unamortized portion of final payment	(1,081)
Less unamortized debt issuance costs	(375)
Notes payable, long term	<u>\$ 32,699</u>

During the three months and six months ended June 30, 2021, the Company recognized \$0.6 million and \$1.1 million of interest expense, respectively, related to the term loan. During the three months and six months ended June 30, 2020 the Company recognized \$0.6 million and \$1.2 million of interest expense, respectively, related to the term loan. The effective annual interest rate as of June 30, 2021 on the outstanding debt under the term loan was approximately 8.6%.

## 9. Share-based compensation

The Company maintains four equity compensation plans; the Orchard Therapeutics Limited Employee Share Option Plan with Non-Employee Sub-Plan and U.S. Sub-Plan (the “2016 Plan”), the Orchard Therapeutics plc 2018 Share Option and Incentive Plan (the “2018 Plan”), the 2018 Employee Share Purchase Plan (the “ESPP”), and the 2020 Inducement Equity Plan (the “Inducement Plan”). The board of directors determined not to make any further awards under the 2016 plan following the Company’s IPO. As of June 30, 2021, 8,609,806 shares remained available for issuance under the 2018 Plan, and 1,341,016 shares remained available for issuance under the ESPP. In June 2020, the board of directors reserved for issuance 1,000,000 shares under the 2020 Inducement Plan, all of which remain available for issuance as of June 30, 2021.

### Share option activity

The following table summarizes option activity under the plans for six months ended June 30, 2021:

	Number of Options	Weighted Average Exercise Price
Outstanding at December 31, 2020	13,895,643	\$ 7.96
Granted	5,051,156	5.94
Exercised	(1,335,218)	2.05
Forfeited	(1,882,903)	11.24
Outstanding at June 30, 2021	15,728,678	\$ 7.42
Vested and expected to vest, as of June 30, 2021	15,728,678	\$ 7.42
Exercisable, June 30, 2021	7,000,330	\$ 6.63

The weighted-average grant date fair value of share options granted during the six months ended June 30, 2021 was \$3.85.

### Restricted share units

#### Performance-based restricted share units

The Company has issued performance-based restricted share units (“RSUs”) to certain executives and members of its senior management, with vesting linked to the achievement of three specific regulatory and research and development milestones and one market condition based upon the volume weighted-average price (“VWAP”) of the Company’s ADSs for a certain period. Upon achievement of any of the aforementioned milestones, one third of the RSUs will vest, and the award will become fully vested upon achievement of three of the four performance conditions.

#### CEO award

The Company granted 195,000 performance-based RSUs to its Chief Executive Officer in April 2020. The award vests on January 2, 2024 as to 1/3 of the award for each of the first three to occur of four milestones, if each such milestone is achieved by the Company on or before December 31, 2023 and Dr. Gaspar remains continuously employed with the Company through January 2, 2024. The milestones relate to achievement of specific clinical and regulatory milestones.

The following table summarizes award activity for the six months ended June 30, 2021:

	Performance-based RSUs	Time-based RSUs	Total RSUs	Weighted Average Grant Date Fair Value
Unvested and outstanding at December 31, 2020	464,000	180,000	644,000	\$ 8.75
Granted	—	27,500	27,500	6.29
Vested	(89,667)	—	(89,667)	11.80
Forfeited	(51,500)	(55,000)	(106,500)	9.30
Unvested and outstanding at June 30, 2021	322,833	152,500	475,333	\$ 7.91

The maximum aggregate total fair value of all outstanding RSUs is \$3.3 million. The fair value associated with the performance-based conditions will be recognized when achievement of the milestones becomes probable, if at all. The Company determined that, as of

June 30, 2021, none of the regulatory and research and development milestones associated with any outstanding RSUs were deemed probable. The amount of compensation cost recognized for the six months ended June 30, 2021 and 2020 for the market condition associated with the performance-based RSUs was nil million and \$0.3 million, respectively. The amount of compensation cost recognized for the three months ended June 30, 2021 and 2020 for the market condition associated with the performance-based RSUs was nil million and \$0.1 million, respectively.

### Share-based compensation expense

Share-based compensation expense recorded as research and development and general and administrative expenses is as follows:

	Three months ended June 30,		Six months ended June 30,	
	2021	2020	2021	2020
Research and development	\$ 2,135	\$ 2,671	\$ 5,011	\$ 5,781
General and administrative	3,406	3,408	6,798	9,777
Total share-based compensation	<u>\$ 5,541</u>	<u>\$ 6,079</u>	<u>\$ 11,809</u>	<u>\$ 15,558</u>

During the six months ended June 30, 2020, the Company recognized \$2.7 million of share-based compensation expense to selling, general and administrative expense related to the modification of share option awards associated with the separation of the Company's former Chief Executive Officer.

As of June 30, 2021, total unrecognized compensation cost related to unvested share option grants was approximately \$47.1 million. This amount is expected to be recognized over a weighted average period of approximately 2.7 years. As of June 30, 2021, the total unrecognized compensation cost related to performance-based RSUs is a maximum of \$3.3 million, dependent upon achievement of the aforementioned milestones.

### 10. Restructuring charges

On May 4, 2020, the Company committed to a new strategic plan and restructuring intended to enable the Company to advance its corporate strategy while reducing overall operating expenses, including ceasing construction and build-out of its Fremont, California manufacturing facility, closing its office in Menlo Park, California, reducing its workforce by approximately 25% across the Company, eliminating a number of future positions expected to be recruited in 2020 and 2021, reducing its investment in the future development for certain programs, and other cost-saving measures (collectively, the "Restructuring"). The workforce reductions took place during the second and third quarters of 2020.

#### Cash restructuring charges

Accrued restructuring and severance costs are included in accrued expenses and other current liabilities in the condensed consolidated balance sheet. Activity for the 2020 fiscal year is summarized as follows:

	Employee termination benefits
<b>Balance at December 31, 2019</b>	\$ —
Charged to expense	1,589
Payments made	(748)
<b>Balance at June 30, 2020</b>	<u>\$ 841</u>

During the six months ended June 30, 2021, the Company had no restructuring charges. During the six months ended June 30, 2021 and 2020, nil and \$1.1 million, respectively, of the employee termination benefits has been classified on the condensed consolidated statement of operations as research and development expense and nil and \$0.5 million, respectively, has been classified as selling, general, and administrative expense.

#### Impairment of long-lived assets

During the three months and six months ended June 30, 2021 the Company had no non-cash restructuring charges. During the three months and six months ended June 30, 2020, the Company took the following non-cash charges to research and development expense associated with the impairment of construction-in-process associated with the Fremont manufacturing facility, partial impairment of

the right-of-use asset for the Fremont manufacturing facility lease (the “Fremont ROU asset”), and a write-down of laboratory equipment from the Company’s Menlo Park, CA facility:

	<b>Asset write-downs</b>	
Operating lease right-of-use asset	\$	2,605
Construction-in-process		2,285
Laboratory equipment		760
<b>Charge taken to research and development expense</b>		<b>5,650</b>

The Company assessed the Fremont construction-in-process for impairment in May 2020 upon the Restructuring. The construction-in-process was related to design costs, and was determined to have no potential future value, and an impairment charge of \$2.3 million was taken for the full value of the construction-in-process asset.

The Company assessed the Fremont ROU asset for impairment in May 2020 upon the Restructuring when the carrying value of the asset was \$13.8 million. The Fremont ROU asset represented the asset group for the impairment assessment. Upon failing the first step of the long-lived asset impairment model where the undiscounted cash flows were less than the carrying value of the Fremont ROU asset, the Company performed the second step by comparing the fair value of the Fremont ROU asset to its carrying value. The fair value of the Fremont ROU asset is a non-recurring fair value measurement that was measured using a probability-weighted discounted cash flow approach, which estimated the present value of potential sublease income to be generated by the facility, less costs incurred to sublease the facility. The significant assumptions inherent in estimating the various probability weighted scenarios included the undiscounted forecasted sublease income less costs incurred, which included assumptions of the expected income and timing of entering into a future sublease, and a market-participant discount rate that reflects a potential discount rate. The Company selected the assumptions used in the fair value estimate using current market data associated with the potential sublease income and market participant discount rates. The undiscounted cash flows utilized in the fair value estimate ranged from \$11.7 million to \$19.1 million to be generated over the remainder of the lease term. The market-participant discount rate utilized in the fair value estimate was 4.6%. These assumptions represent level 3 inputs of the fair value hierarchy.

As of the assessment date, the fair value of the Fremont ROU asset was \$11.2 million, and the Company recorded a \$2.6 million impairment charge related to the asset. The remaining carrying value of the Fremont ROU asset will be amortized over the remaining lease term on a straight-line basis. In December 2020, the Company executed a sublease for the Fremont manufacturing facility with an unrelated third-party for the remaining lease term. No further impairment was necessary as a result of the sublease. The occurrence of a triggering event for the Fremont ROU asset in future periods could result in additional impairment charges if the estimated fair value of the asset is determined to be lower than the carrying value.

## **11. License agreements**

### ***GSK asset purchase and license agreement***

In April 2018, the Company completed an asset purchase and license agreement (the “GSK Agreement”) with subsidiaries of GSK to acquire a portfolio of autologous *ex vivo* gene therapy assets and licenses for rare diseases and option rights on three additional programs in preclinical development from Telethon Foundation and San Raffaele Hospital (“Telethon-OSR”). The portfolio of programs and options acquired consisted of two late-stage clinical gene therapy programs in ongoing registrational trials for MLD and WAS, one earlier stage clinical gene therapy program for TDT, Strimvelis, and option rights exercisable upon completion of clinical proof of concept studies for three additional earlier-stage development programs, which option rights have all subsequently lapsed. The Company accounted for the GSK Agreement as an asset acquisition, since the asset purchase and licensing arrangement did not meet the definition of a business pursuant to ASC 805, Business Combinations, resulting in total consideration of \$133.6 million, which was recorded in the second quarter of 2018.



The Company is required to use commercially reasonable efforts to obtain a Priority Review Voucher (“PRV”) from the United States Food and Drug Administration for each of the programs for MLD, WAS and TDT, the first of which GSK retained beneficial ownership over. GSK also has an option to acquire, at a price pursuant to an agreed upon formula, any PRV granted to the Company thereafter for MLD, WAS and TDT. If GSK does not exercise this option to purchase any PRV, the Company may sell the PRV to a third party and must share any proceeds in excess of a specified sale price equally with GSK. As part of the GSK Agreement the Company is also required to use its best endeavors to make Strimvelis commercially available in the European Union until such time as an alternative gene therapy is commercially available for patients in Italy, and at all times at the San Raffaele Hospital in Milan, provided that a minimum number of patients continue to be treated at this site.

The Company will pay GSK non-refundable royalties and milestone payments in relation to the gene therapy programs acquired. The Company will pay a flat mid-single digit percentage royalty on the annual net sales of Strimvelis. The Company will also pay tiered royalty rates at a percentage beginning in the mid-teens up to twenty percent for the MLD and WAS products, upon marketing approval, calculated as percentages of aggregate cumulative net sales of the MLD and WAS products, respectively. The Company will pay a tiered royalty at a percentage from the high single-digits to low double-digit for the TDT product, upon marketing approval, calculated as percentages of aggregate annual net sales of the TDT product. These royalties owed to GSK are in addition to any royalties owed to other third parties under various license agreements for the GSK programs. In aggregate, the Company may pay up to £90.0 million in milestone payments upon achievement of certain sales milestones applicable to GSK. The Company’s royalty obligations with respect to MLD and WAS may be deferred for a certain period in the interest of prioritizing available capital to develop each product. The Company’s royalty obligations are subject to reduction on a product-by-product basis in the event of market control by biosimilars and will expire in April 2048. Other than Strimvelis, these royalty and milestone payments were not determined to be probable and estimable at the date of the acquisition and are not included as part of consideration.

#### ***Telethon-OSR research and development collaboration and license agreements***

In connection with the Company’s entering into the GSK Agreement in April 2018, the Company also acquired and assumed agreements with Telethon Foundation and San Raffaele Hospital, together referred to as Telethon-OSR, for the research, development and commercialization of autologous *ex vivo* gene therapies for ADA-SCID, WAS, MLD and TDT.

As consideration for the licenses, the Company will be required to make payments to Telethon-OSR upon achievement of certain product development milestones, up to an aggregate of approximately €31.0 million. Additionally, the Company will be required to pay to Telethon-OSR a tiered mid-single to low-double digit royalty percentage on annual sales of licensed products covered by patent rights on a country-by-country basis, as well as a low double-digit percentage of sublicense income received from any certain third-party sublicenses of the collaboration programs.

In May 2019, the Company entered into a license agreement with Telethon-OSR, under which Telethon-OSR granted to the Company an exclusive worldwide license for the research, development, manufacture and commercialization of Telethon-OSR’s *ex vivo* autologous HSC lentiviral based gene therapy for the treatment of mucopolysaccharidosis type I, including the Hurler variant (“MPS-IH”). Under the terms of the agreement, Telethon-OSR received €15.0 million in upfront and milestone payments from the Company upon entering into the agreement, resulting in \$17.2 million in in-process research and development expense. The Company is also required to make milestone payments contingent upon achievement of certain development, regulatory and commercial milestones. Additionally, the Company will be required to pay Telethon a tiered mid-single to low-double digit royalty percentage on annual net sales of licensed products.

### ***Oxford BioMedica license, development and supply agreement***

In November 2016, and amended in June 2017, May 2018, July 2018, September 2018, May 2019 and April 2020, the Company entered into an arrangement with Oxford BioMedica plc whereby Oxford BioMedica granted an exclusive intellectual property license to the Company for the purposes of research, development, and commercialization of collaboration products, and whereby Oxford BioMedica will provide process development services (“Oxford BioMedica Development Agreement”). As part of the consideration to rights and licenses granted under the Oxford BioMedica Development Agreement, the Company issued 588,220 ordinary shares to Oxford BioMedica. The Company is also obligated to make certain development milestone payments in the form of issuance of additional ordinary shares if the milestones are achieved. In November 2017, the first milestone was achieved, and the Company was committed to issue another 150,826 ordinary shares, and issued these shares in 2018. In September 2018, the second and fourth milestones were achieved, and the Company issued 150,826 ordinary shares. In April 2020, the fifth milestone was deemed to have been met upon execution of the amended agreement in April 2020, and the Company issued another 75,413 ordinary shares to Oxford BioMedica with a total value of \$0.8 million. The Company may also pay low single-digit percentage royalties on net sales of collaborated product generated under the Oxford BioMedica Agreement.

## **12. Income taxes**

The Company recorded income tax expense of \$1.8 million and benefit of \$0.3 million for the six months ended June 30, 2021 and 2020, respectively. The Company recorded income tax expense of \$0.8 million and \$0.1 million for the three months ended June 30, 2021 and 2020, respectively, which relates primarily to the Company’s subsidiary operations in Europe and the U.S. The Company has not benefited operating losses related to its U.K. entities. The income tax expense for the three months and six months ended June 30, 2021 was primarily due to share-based compensation shortfalls. The income tax expense for the three months ended June 30, 2020 was primarily due to share-based compensation shortfalls. The income tax benefit for the six months ended June 30, 2020 was primarily due to share-based compensation windfalls.

## **13. Commitments and contingencies**

### *Legal proceedings*

The Company is not a party to any material litigation and does not have contingency reserves established for any litigation liabilities.

### *Manufacturing and technology development master agreement with AGC Biologics*

The Company entered into an agreement with AGC Biologic S.p.A (“AGC”) in July 2020 pursuant to which the Company is obligated to pay AGC for a minimum product manufacturing commitment, dedicated manufacturing and development resources, and for a lease component associated with the right of use of exclusive manufacturing suites within AGC’s existing facilities. The following table outlines the current commitments associated with the agreement, as of June 30, 2021:

Due in:	Product manufacturing commitments	Dedicated manufacturing and development resources	Exclusive transduction suites	Total remaining AGC commitment
2021 (July - December)	\$ 1,452	\$ 5,367	\$ —	\$ 6,819
2022	2,813	8,385	3,297	14,495
2023	3,267	8,385	3,297	14,949
2024	3,267	8,385	3,297	14,949
2025	1,634	4,193	1,649	7,476
Total commitment	\$ 12,433	\$ 34,715	\$ 11,540	\$ 58,688

\*Tabular disclosure above has been translated to U.S. Dollar, from Euro, using an exchange rate of €1.00 to \$1.21.

### *Lease commitments*

The Company leases office and laboratory space and has an embedded lease at AGC. There have been no material changes to the Company’s lease commitments as reported in the Company’s Annual Report on Form 10-K.

## **14. Employee benefit plans**

The Company makes contributions to private defined contribution employee benefit plans on behalf of its employees. The Company provides employee contributions of up to six percent of each employee’s annual salary based on the jurisdiction the employees are located. The Company paid \$0.4 million and \$0.9 million in matching contributions for the three months and six months ended June

30, 2021, respectively. The Company paid \$0.3 million and \$1.0 million in matching contributions for the three months and six months ended June 30, 2020, respectively.

## 15. Related party transactions

### GSK

In April 2018, the Company completed the GSK Agreement with subsidiaries of GSK to acquire a portfolio of autologous *ex vivo* gene therapy assets and licenses for rare diseases and option rights on three additional programs in preclinical development from Telethon-OSR (see Note 11). As of June 16, 2021, GSK no longer had a right to nominate and appoint a designee to the Company's board of directors, and GSK and is no longer considered a related party.

As of June 30, 2021, and December 31, 2020, the Company had accounts payable and accrued expenses due to GSK of nil and \$0.1 million, respectively. During the six months ended June 30, 2021, the Company recorded no expense associated with transactions with GSK. During the six months ended June 30, 2020 the Company entered into a global license agreement with GSK for use of their lentiviral stable cell line technology whereby the Company recorded \$1.3 million of in-process research and development expense associated with upfront payments made to GSK. During the six months ended June 30, 2021, the Company made \$0.1 million in payment on accounts payable due to GSK. During the six months ended June 30, 2020, the Company made \$0.6 million in payments on accounts payable due to GSK.

## 16. Subsequent events

On July 1, 2021, the Company announced a strategic collaboration with Pharming Group N.V. ("Pharming") to research, develop, manufacture and commercialize OTL-105, an investigational *ex vivo* autologous HSC gene therapy for the treatment of hereditary angioedema (HAE), a life-threatening rare disorder that causes recurring swelling attacks in the face, throat, extremities and abdomen.

Under the terms of the collaboration, Pharming has been granted worldwide rights to OTL-105 and will be responsible for clinical development, regulatory filings and commercialization of the investigational gene therapy, including associated costs. The Company will lead the completion of IND-enabling activities and oversee manufacturing of OTL-105 during preclinical and clinical development, which will be funded by Pharming. In addition, both the Company and Pharming will explore the application of non-toxic conditioning regimen for use with OTL-105 administration.

The Company received an upfront payment of \$17.5 million comprising \$10.0 million in cash and a \$7.5 million equity investment from Pharming at a premium to the Company's then recent share price, resulting in the issuance of 1,227,738 ordinary shares subject to resale restrictions. The Company is also eligible to receive up to \$189.5 million in development, regulatory and sales milestones as well as mid-single to low double-digit royalty payments on future worldwide sales.

## Item 2. Management’s Discussion and Analysis of Financial Condition and Results of Operations.

The following discussion of our financial condition and results of operations should be read in conjunction with our consolidated financial statements and related notes included elsewhere in this Quarterly Report. Some of the information contained in this discussion and analysis and set forth elsewhere in this Quarterly Report, including information with respect to our plans and strategy for our business, includes forward-looking statements that involve risks and uncertainties. You should review the section titled “Risk Factors” in Part II—Item 1A. of this Quarterly Report for a discussion of important factors that could cause actual results to differ materially from the results described in or implied by the forward-looking statements contained in the following discussion and analysis.

### Business Overview

Orchard Therapeutics is a global gene therapy company dedicated to transforming the lives of people affected by severe diseases through the development of innovative, potentially curative gene therapies. Our *ex vivo* autologous hematopoietic stem cell (“HSC”) gene therapy approach harnesses the power of genetically modified blood stem cells and seeks to correct the underlying cause of disease in a single administration. We have one of the deepest and most advanced gene therapy pipelines in the industry spanning multiple therapeutic areas where the disease burden on children, families and caregivers is immense and current treatment options are limited or do not exist.

Since our inception in 2015, we have devoted substantially all of our resources to conducting research and development of our product candidates, in-licensing and acquiring rights to our product candidates, business planning, raising capital and providing general and administrative support for our operations. To date, we have financed our operations primarily with proceeds from the sale of equity securities, including American Depositary Shares (“ADSs”) in our initial public offering (“IPO”) and follow-on offering, ordinary shares in our private placement, and convertible preferred shares. We have also financed our operations through proceeds from our senior term facilities agreement (the “Amended Credit Facility”) with MidCap Financial (Ireland) Limited (“MidCap Financial”), research grants from the California Institute of Regenerative Medicine (“CIRM”) and through proceeds associated two UK research and development tax relief programs, the Small and Medium-sized Enterprises research and development tax credit (“SME”) program and the Research and Development Expenditure (“RDEC”) program.

We have incurred significant operating losses since our inception. With the approval of Libmeldy in Europe, we are now focused on our transition from a primarily clinical development stage company to a commercial stage company. We plan to continue the implementation of our commercialization plan for Libmeldy and our near-term plans for commercialization include:

- Enabling patient identification via multi-pronged diagnostics initiatives and newborn screening in Europe and the U.S.;
- Expanding global footprint by qualifying leading centers with transplant and disease area expertise;
- Leveraging cross-border and treatment abroad reimbursement pathways in Europe, Middle East, and Turkey;
- Securing market access via multi-stakeholder engagement with various payment models.

Our net losses were \$71.8 million and \$98.1 million for the six months ended June 30, 2021 and 2020, respectively. As of June 30, 2021, we had an accumulated deficit of \$677.4 million. As of June 30, 2021, we had cash, cash equivalents and marketable securities of \$269.3 million, excluding amounts held in escrow deposits. Our losses have resulted primarily from costs incurred in connection with research and development activities and general and administrative costs associated with our operations. We expect to continue to incur significant expenses and increasing operating losses for the foreseeable future.

As a result, we will need substantial additional funding to support our continuing operations and pursue our growth strategy. Until such time as we can generate significant revenue from product sales, if ever, we expect to finance our operations through a combination of equity offerings, debt financings, collaborations, government contracts or other strategic transactions. We may be unable to raise additional funds or enter into such other agreements or arrangements when needed on favorable terms, or at all.

### Recent Developments

On February 9, 2021, we issued and sold (i) 20,900,321 ordinary shares, nominal value £0.10 per share, at a purchase price of \$6.22 per share (the “Purchase Price”), which was the closing sale price of our ADSs on the Nasdaq Global Select Market on February 4, 2021, and (ii) 3,215,434 non-voting ordinary shares, nominal value £0.10 per share, at the Purchase Price (together (i) and (ii) the “Private Placement”). The Private Placement resulted in net proceeds to us of \$143.7 million after deducting placement agent fees of \$6.0 million and other offering-related costs of \$0.3 million. The ordinary shares and non-voting ordinary shares were sold pursuant to a securities purchase agreement we entered into with the purchasers named therein on February 4, 2021. The ADSs representing the ordinary shares issued in the Private Placement were registered for resale on an automatic shelf registration statement on Form S-3 filed with the SEC on April 8, 2021.

On May 28, 2021, we notified UCL Business Plc (“UCLB”) and The Regents of the University of California (“UCLA”) that we were terminating the license relating to our OTL-101 program for ADA-SCID, which was granted to us pursuant to the license agreement, dated February 6, 2016, among us, UCLB and UCLA, as amended (the “License Agreement”), such termination to be effective 30 days after the date of such notice. Except for the termination of such license, the License Agreement continues in full force and effect.

On July 1, 2021, the Company announced a strategic collaboration with Pharming to research, develop, manufacture and commercialize OTL-105, an investigational *ex vivo* autologous HSC gene therapy for the treatment of hereditary angioedema (HAE), a life-threatening rare disorder that causes recurring swelling attacks in the face, throat, extremities and abdomen.

Under the terms of the collaboration, Pharming has been granted worldwide rights to OTL-105 and will be responsible for clinical development, regulatory filings and commercialization of the investigational gene therapy, including associated costs. The Company will lead the completion of IND-enabling activities and oversee manufacturing of OTL-105 during preclinical and clinical development, which will be funded by Pharming. In addition, both the Company and Pharming will explore the application of non-toxic conditioning regimen for use with OTL-105 administration.

The Company received an upfront payment of \$17.5 million comprising \$10.0 million in cash and a \$7.5 million equity investment from Pharming at a premium to the Company’s then recent share price, resulting in the issuance of 1,227,738 ordinary shares subject to resale restrictions. The Company is also eligible to receive up to \$189.5 million in development, regulatory and sales milestones as well as mid-single to low double-digit royalty payments on future worldwide sales.

#### *Business update regarding COVID-19*

The current COVID-19 pandemic has presented substantial public health and economic challenges around the world and is affecting our employees, patients, communities and business operations, as well as the U.S. and global economies and financial markets. The impact of this pandemic has been and will likely continue to be extensive in many aspects of society and will likely continue to result in significant disruptions to the global economy, as well as businesses and capital markets around the world.

In an effort to halt the outbreak of COVID-19, a number of countries, including the United States, United Kingdom and Italy, have placed significant restrictions on travel. While some restrictions have been relaxed since the beginning of the pandemic, many restrictions are still in place. In the U.S. and UK, our office-based employees have been primarily working from home since March 2020. Limitations on travel and other social distancing measures may have an effect on our preclinical and clinical activities and regulatory timelines. While our clinical sites are still treating and following up with patients in clinical trials, these centers are also devoting significant resources to patients with COVID-19 and may need to devote additional resources as variants of COVID-19 lead to a potential rise in hospitalizations, which could limit their ability to enroll additional patients in ongoing clinical studies. While we believe we have enrolled and treated enough patients to support regulatory filings for OTL-200 in the U.S., COVID-19-related impacts shifted the enrollment timeline for our OTL-201 trial for the treatment of MPS-IIIa by three months.

As additional variants of the virus proliferate, potential renewed travel and stay-at-home orders could adversely affect our contract manufacturers and third-party logistics providers. To date, our third-party contract development and manufacturing organization (CDMO) partners have continued to operate at or near normal levels. While we currently do not anticipate any interruptions, it is possible that the COVID-19 pandemic and response efforts may have an impact in the future on our or our third-party suppliers’ and CDMO partners’ ability to manufacture our products in development. We have reviewed the collectability and valuation of our assets through the date of financial statement issuance and did not identify any significant recoverability concerns or impairments. Any prolonged material disruptions to our employees, suppliers, CDMOs, vendors or patients could impact our operating results and could lead to impairments. To date, we have recorded impairments on long-lived assets that are due to a combination of a corporate restructuring and COVID-19 market impacts.

In addition, our ability to access the capital markets could be impacted if there are future disruptions to capital markets that result from the COVID-19 pandemic.

For additional information on the various risks posed by the COVID-19 pandemic, please see the section titled “Item 1A. Risk Factors” included in this Quarterly Report.

## Components of our results of operations

### Revenue

During the quarters ended June 30, 2021 and 2020, we recognized nil and \$0.6 million revenue from sales of Strimvelis, respectively. Libmeldy received approval from the European Commission in December 2020 and, if we are able to identify patients and secure reimbursement for our treatment, we may begin to generate revenue from the sale of Libmeldy in Europe in 2021. Strimvelis is distributed exclusively at the San Raffaele Hospital in Milan, Italy. While we expect that any future sales of Strimvelis will fluctuate quarter over quarter, we paused treating new patients with Strimvelis in October 2020 upon learning that a patient treated with the drug in 2016 under a compassionate use program was diagnosed with lymphoid T cell leukemia, a known risk factor for gammaretroviral vector-based gene therapy. The EMA's Committee for Medicinal Products for Human Use, or CHMP, reviewed the updated risk-benefit assessment of Strimvelis as part of its ongoing MAA renewal procedure, concluded that the risk-benefit balance remains favorable and recommended in February 2021 that the marketing authorization for Strimvelis be renewed for five years, and we are currently able to resume sales of Strimvelis.

### Cost of product sales

Cost of sales consists of costs to manufacture, including raw materials, distribute and administer Strimvelis, and royalty payments due to third parties that are tied to sales.

### Operating expenses

#### Research and development expenses

Research and development expenses consist primarily of costs incurred for our research activities, including our discovery efforts and the development of our product candidates, and include:

- expenses incurred under agreements with third parties, including contract research organizations (CROs) that conduct research, preclinical activities and clinical trials on our behalf as well as contract manufacturing organizations that manufacture lentiviral vectors and cell-based drug products for use in our preclinical and clinical trials;
- expenses to acquire technologies to be used in research and development;
- salaries, benefits and other related costs, including share-based compensation expense, for personnel engaged in research and development functions;
- costs of outside consultants, including their fees, share-based compensation and related travel expenses;
- the costs of laboratory supplies and acquiring, developing and manufacturing preclinical study and clinical trial materials;
- costs related to compliance with regulatory requirements;
- facility-related expenses, which include direct depreciation costs and allocated expenses for rent and maintenance of facilities and other operating costs;
- upfront, milestone and management fees for maintaining licenses under our third-party licensing agreements; and
- grant awards or other government incentives unrelated to income taxes that we earn that are recorded as an offset to the related research and development costs incurred.

We expense research and development costs as incurred. We recognize external development costs based on an evaluation of the progress to completion of specific tasks using information provided to us by our service providers. Payments for these activities are based on the terms of the individual agreements, which may differ from the pattern of costs incurred, and are reflected in our financial statements as prepaid expenses or accrued research and development expenses. United Kingdom research and development tax credits are recorded as an offset to research and development expense. Amortization of the Strimvelis loss provision is also recorded as an offset to research and development expense (see Note 2 of our condensed consolidated financial statements).

Our direct external research and development expenses are tracked on a program-by-program basis and consist of costs, such as fees paid to consultants, contractors and contract manufacturing organizations in connection with our preclinical and clinical development activities. License fees and other costs incurred after a product candidate has been designated and that are directly related to the product candidate are included in direct research and development expenses for that program. License fees and other costs incurred prior to designating a product candidate for development are included in unallocated costs. We do not allocate employee costs, costs associated with our early-stage discovery efforts, laboratory supplies, and facilities, including depreciation or other indirect costs, to

specific product development programs because these costs are deployed across multiple product development programs and, as such, are not separately classified.

Research and development activities are central to our business model. Product candidates in later stages of clinical development generally have higher development costs than those in earlier stages of clinical development, primarily due to the increased size and duration of later-stage clinical trials or the manufacturing requirements to conduct those clinical trials. We expect that our research and development expenses will remain consistent quarter over quarter for the near term as we continue to: (i) expedite the clinical development and continue to seek to obtain marketing approval for our lead product candidates, including OTL-200 in the U.S. for MLD and OTL-103 for WAS in the U.S. and Europe; (ii) initiate additional clinical trials for our product candidates, which may include OTL-102 for X-CGD, OTL-201 for MPS-III A, and OTL-203 for MPS-IH; (iii) reduce our investment in and development expenses for OTL-300 for TDT and reallocate these financial resources to other programs; (iv) seek to improve the efficiency and scalability of our outsourced manufacturing processes and supply chain; (v) build process development and analytical capabilities in the near term, and potential manufacturing capabilities in the longer term; and (vi) continue to discover and develop additional product candidates. For example, in April 2020, we announced our intention to accelerate our research and development efforts for projects in less rare indications, including two new research programs in genetic subsets of frontotemporal dementia (FTD) and Crohn's disease, and in November 2020 we announced a new program in amyotrophic lateral sclerosis (ALS). We also expect to incur additional expenses related to milestone, royalty payments and maintenance fees payable to third parties with whom we have entered into license agreements to acquire the rights related to our product candidates.

The continued commercialization of Strimvelis, the success of our efforts to build a commercial infrastructure and commence sales of Libmeldy, and the successful development and commercialization of our other product candidates, if approved, is highly uncertain. This is due to the numerous risks and uncertainties associated with product development and commercialization, including the following:

- completing research and preclinical development of our product candidates and identifying attractive new gene therapy product candidates;
- conducting and fully enrolling clinical trials in the development of our product candidates, including maintaining or resuming enrollment as a result of the COVID-19 pandemic;
- seeking and obtaining regulatory and marketing approvals for product candidates for which we complete registrational clinical trials that achieve their primary endpoints;
- launching and commercializing product candidates for which we obtain regulatory and marketing approval by expanding our existing sales force, marketing and distribution infrastructure or, alternatively, collaborating with a commercialization partner;
- maintaining marketing authorization and related post-marketing commitments for regulatory compliance for Libmeldy and Strimvelis in Europe;
- qualifying for, obtaining, and/or maintaining, adequate coverage and reimbursement by government and private payors for Libmeldy, Strimvelis and any product candidate for which we obtain marketing approval;
- establishing and maintaining supply and manufacturing processes and relationships with third parties that can provide adequate, in both amount and quality, products and services to support clinical development of our product candidates and the market demand for Libmeldy, Strimvelis and any of our product candidates for which we obtain marketing approval;
- obtaining market acceptance of Strimvelis, Libmeldy, and our current and future product candidates, if approved, as viable treatment options with acceptable long-term safety profiles;
- addressing any competing technological and market developments;
- implementing additional internal systems and infrastructure, as needed, including robust quality systems and compliance systems;
- negotiating favorable terms in any collaboration, licensing or other arrangements into which we may enter and performing our obligations under such arrangements;
- maintaining, protecting and expanding our portfolio of intellectual property rights, including patents, trade secrets and know-how; and
- attracting, hiring and retaining qualified personnel.

A change in the outcome of any of these variables with respect to the development of a product or product candidate could mean a significant change in the costs and timing associated with the development of that product or product candidate. For example, if the FDA, EMA or another regulatory authority were to require us to conduct clinical trials beyond those that we anticipate will be required for the completion of clinical development of a product candidate, or if we experience significant trial delays due to patient enrollment or other reasons, we would be required to expend significant additional financial resources and time on the completion of clinical development and we may never succeed in obtaining regulatory approval for any of our product candidates. If the EMA or another regulatory body determines that the safety profile of Strimvelis is no longer acceptable as a result of the adverse event described above, our ability to commercialize Strimvelis would be impaired.

#### *Selling, general and administrative expenses*

Selling, general and administrative expenses consist primarily of salaries and other related costs, including share-based compensation, for personnel in our executive, finance, commercial, corporate and business development, and administrative functions. Selling, general and administrative expenses also include professional fees for legal, patent, accounting, auditing, tax and consulting services, travel expenses and facility-related expenses, which include direct depreciation costs and allocated expenses for rent and maintenance of facilities and other operating costs.

Selling, general and administrative expenses declined approximately 21% in the second quarter of 2021 as compared to the second quarter of 2020 due to our corporate restructuring, which occurred in the second quarter of 2020. We expect that our general and administrative expenses will remain steady in the near term. We note that our selling costs are likely to increase as we continue to expand our organization into multiple countries in Europe to support the planned launch of Libmeldy, which received marketing authorization in the European Union as well as the United Kingdom, Iceland, Liechtenstein and Norway in December 2020 but that such increases will be offset by savings as a result of our restructuring and other initiatives.

#### ***Other income (expense), net***

##### *Interest income*

Interest income consists of income earned on our cash and cash equivalents and marketable securities.

##### *Interest expense*

Interest expense consists of interest associated with our credit facility with MidCap Financial, which we entered into in May 2019, and amended and restated in May 2021. The Amended Credit Facility bears a variable interest rate at a rate of 5.95% above LIBOR, plus a final payment equal to 3.5% of the principal borrowed under the Amended Credit Facility.

##### *Other income (expense)*

Other income (expense), net consists primarily of realized and unrealized foreign currency transaction gains and losses.

#### **Results of operations**



### Comparison of the six months ended June 30, 2021 and 2020

The following table summarizes our results of operations for the six months ended June 30, 2021 and 2020:

	Six Months Ended June 30,		
	2021	2020	Change
	(in thousands)		
Product sales, net	\$ —	\$ 597	\$ (597)
Costs and operating expenses			
Cost of product sales	—	191	(191)
Research and development	42,785	56,404	(13,619)
Selling, general and administrative	28,314	35,804	(7,490)
Total costs and operating expenses	71,099	92,399	(21,300)
Loss from operations	(71,099)	(91,802)	20,703
Other income (expense):			
Interest income	284	2,372	(2,088)
Interest expense	(1,131)	(1,181)	50
Other income (expense):	1,992	(7,733)	9,725
Total other income (expense), net	1,145	(6,542)	7,687
Loss before provision for income taxes	(69,954)	(98,344)	28,390
Income tax (expense) benefit	(1,837)	275	(2,112)
Net loss	\$ (71,791)	\$ (98,069)	\$ 26,278

### Research and development expenses

The table below summarizes our research and development expenses by therapeutic area:

	Six months ended June 30,		
	2021	2020	Change
	(in thousands)		
Direct research and development expenses by therapeutic area:			
Neurometabolic disorders	\$ 9,180	\$ 10,451	\$ (1,271)
Primary immune deficiencies	8,871	11,791	(2,920)
Blood disorders	292	1,152	(860)
Other research and preclinical programs under development	2,649	934	1,715
<b>Total direct research and development expenses:</b>	<b>20,992</b>	<b>24,328</b>	<b>(3,336)</b>
Research and discovery and unallocated costs			
Personnel related (excluding share-based compensation)	18,233	19,801	(1,568)
Share-based compensation	5,011	5,781	(770)
Accretion of Strimvelis loss provision	(814)	(2,018)	1,204
Research and development tax credit	(7,800)	(7,031)	(769)
Impairment of long-lived assets	—	5,650	(5,650)
Facility and other	7,163	9,893	(2,730)
<b>Total indirect research and development expenses</b>	<b>21,793</b>	<b>32,076</b>	<b>(10,283)</b>
<b>Total research and development expenses</b>	<b>\$ 42,785</b>	<b>\$ 56,404</b>	<b>\$ (13,619)</b>

Direct research and development expenses for our neurometabolic disorder programs decreased by \$1.3 million compared to the first half of 2020. Direct expenses associated with OTL-200 for MLD decreased by \$1.8 million compared to the first half of 2020. This was primarily due to a \$1.3 million credit we recorded in the second quarter of 2021 associated with relief of payment due to a licensor for a regulatory milestone associated with EMA approval of Libmeldy, and due to a \$0.7 million decline in clinical costs. Direct expenses associated with OTL-203 for MPS-IH increased by \$1.3 million, primarily due to clinical and manufacturing costs associated with treating patients in our clinical trial. Direct expenses for OTL-201 for MPS-IIIA declined by \$0.7 million, primarily due to lower clinical costs due to the timing of patient treatments. Direct expenses of OTL-202 for MPS-IIIB did not change materially as compared to the prior year period.

Direct research and development expenses for primary immune deficiency-related programs declined by \$2.9 million, primarily due to the de-prioritization and eventual termination of the license for OTL-101 for ADA-SCID in 2020 and 2021. Direct expenses associated with OTL-101 declined by \$3.2 million. This was due to a \$3.9 million decrease in manufacturing and process development costs with third-party contract manufacturers. Clinical-related costs increased by \$0.7 million, primarily due to provisions made in the second quarter of 2021 for estimated future clinical costs associated with our sponsored clinical trials for OTL-101. After taking a provision for our estimated future clinical obligations associated with our sponsored clinical trials, we do not expect to incur significant further costs associated with OTL-101 due to termination of the license with UCLA/UCLB. The decline in direct expenses for OTL-101 were offset by an increase in direct expenses for OTL-103 for WAS of \$1.9 million, which was primarily due to an increase in clinical trial costs. Direct expenses for OTL-102 for X-CGD declined by \$1.9 million, primarily due to a payment in the form of ordinary shares valued at \$0.8 million made to Oxford BioMedica upon entering into an amendment to an on-going agreement in 2020 that did not recur in 2021.

Direct research and development expenses for our blood disorder programs declined by \$0.9 million due to our de-prioritization of OTL-300 for TDT. In the future, we do not expect to incur significant direct costs associated with OTL-300. The increase in costs associated with other research and preclinical programs relates primarily to discovery-stage manufacturing and clinical costs, including programs targeting frontotemporal dementia and Crohn's disease. We expect these costs to continue to increase as part of our new strategic growth plan to focus on these less rare indications.

Unallocated research and development costs and offsets to research and development expenses decreased by \$10.3 million. This is due to \$5.7 million non-cash impairment charges associated with the consolidation and closure of our research and development and manufacturing facilities in California that occurred in the first half of 2020 that did not recur in 2021. Personnel costs also declined by \$1.6 million while share-based compensation increased by \$0.8 million. The personnel declines are attributable to severance charges incurred in the first half of 2020 that did not recur in 2021. Other research and development costs such as lab supplies and consumables, external manufacturing and process development, and other unallocated platform-related costs not attributable to a specific developmental program declined by \$2.7 million. This decline was primarily due to a decline in platform-related manufacturing costs of \$1.5 million, and credits from the sublease of our Fremont Facility, which are recorded as an offset to research and development expense. The benefits of our U.K. research and development tax credit that is recorded as an offset to research and development expense increased by \$0.8 million in the first half of 2021 compared to the first half of 2020 due to increased qualifying costs. Accretion of the Strimvelis loss provision, which is also accounted for as an offset to research and development expense declined by \$1.2 million in the first half of 2021 as compared to the first half of 2020, as we have adjusted our ongoing estimate due to the de-prioritization of OTL-101 and have extended out the expected period of losses for Strimvelis, which results in lower amortization of the loss provision.

#### *Selling, general and administrative expenses*

The table below summarizes our selling, general and administrative expenses by functional area:

	Six months ended June 30,		
	2021	2020	Change
	(in thousands)		
<b>Selling, general and administrative expenses:</b>			
Personnel (excluding share-based compensation)	\$ 10,525	\$ 12,933	\$ (2,408)
Share-based compensation	6,797	9,777	(2,980)
Consulting, professional, and insurance-related costs	6,490	5,820	670
Marketing, promotions, and advocacy	2,152	3,994	(1,842)
Facilities and IT-related costs	2,062	2,786	(724)
Other	288	494	(206)
<b>Total selling, general, and administrative expenses:</b>	<u>\$ 28,314</u>	<u>\$ 35,804</u>	<u>\$ (7,490)</u>

Selling, general and administrative expenses were \$28.3 million in the first half of 2021, compared to \$35.8 million in the first half of 2020. The decline of \$7.5 million was primarily due to savings associated with our corporate restructuring, which occurred in the second quarter of 2020. Included in this decline is a \$0.7 million charge in 2020 associated with the separation of our former Chief Executive Officer that did not recur in 2021. Share-based compensation expense declined by \$3.0 million in the first half of 2021 compared to the first half of 2020 due to a \$2.7 million charge associated with the separation of our Chief Executive Officer in March 2020 that did not recur in 2021. Consulting, professional, and insurance-related costs increased by \$0.7 million, primarily due to an increase in directors' and officers' insurance costs of \$0.5 million. Expenses associated with marketing and commercialization of Strimvelis, and costs associated with increased promotional and advocacy activities in preparation for the potential future commercialization of our product candidates, if approved, declined by \$1.8 million. Facilities and IT-related costs declined by \$0.2 million.

*Other income (expense), net*

Other income (expense), net for the first half of 2021 and 2020, consisted of income of \$1.1 million and expenses of \$6.5 million, respectively. During the first half of 2021, we had realized and unrealized gains on foreign currency transactions of \$2.0 million, compared to realized and unrealized losses of \$7.7 million for the first half of 2020. These unrealized losses are driven primarily by intercompany balances denominated in currencies other than our functional currency, the U.S. Dollar, and will fluctuate with changes in exchange rates. Additionally, we had interest income of \$0.3 million in the first half of 2021, compared to \$2.4 million in the first half of 2020. This decline in interest income is attributable to lower yields associated with our marketable securities. Interest expense increased by \$0.1 million in the first half of 2021 as compared to the first half of 2020.

**Comparison of the three months ended June 30, 2021 and 2020**

The following table summarizes our results of operations for the three months ended June 30, 2021 and 2020:

	Three Months Ended June 30,		
	2021	2020	Change
	(in thousands)		
Product sales, net	\$ —	\$ 597	\$ (597)
Costs and operating expenses			
Cost of product sales	—	191	(191)
Research and development	21,750	31,568	(9,818)
Selling, general and administrative	14,263	15,659	(1,396)
Total costs and operating expenses	36,013	47,418	(11,405)
Loss from operations	(36,013)	(46,821)	10,808
Other income (expense):			
Interest income	113	892	(779)
Interest expense	(593)	(568)	(25)
Other income (expense):	634	(943)	1,577
Total other income (expense), net	154	(619)	773
Loss before provision for income taxes	(35,859)	(47,440)	11,581
Income tax (expense) benefit	(750)	(60)	(690)
Net loss	\$ (36,609)	\$ (47,500)	\$ 10,891

Research and development expenses

The table below summarizes our research and development expenses by therapeutic area:

	Three months ended June 30,		
	2021	2020	Change
	(in thousands)		
Direct research and development expenses by therapeutic area:			
Neurometabolic disorders	\$ 3,439	\$ 5,719	\$ (2,280)
Primary immune deficiencies	6,268	7,422	(1,154)
Blood disorders	165	970	(805)
Other research and preclinical programs under development	1,619	365	1,254
<b>Total direct research and development expenses:</b>	<b>11,491</b>	<b>14,476</b>	<b>(2,985)</b>
Research and discovery and unallocated costs			
Personnel related (excluding share-based compensation)	9,280	9,536	(256)
Share-based compensation	2,135	2,671	(536)
Accretion of Strimvelis loss provision	(368)	(349)	(19)
Research and development tax credit	(4,246)	(3,648)	(598)
Impairment of long-lived assets	—	5,650	(5,650)
Facility and other	3,458	3,232	226
<b>Total indirect research and development expenses</b>	<b>10,259</b>	<b>17,092</b>	<b>(6,833)</b>
<b>Total research and development expenses</b>	<b>\$ 21,750</b>	<b>\$ 31,568</b>	<b>\$ (9,818)</b>

Direct research and development expenses for our neurometabolic disorder programs declined by \$2.3 million. Direct expenses associated with OTL-200 for MLD declined by \$1.4 million compared to the second quarter of 2020. This was primarily due to a \$1.3 million credit we recorded in the second quarter of 2021 associated with relief of payment due to a licensor for a regulatory milestone associated with EMA approval of Libmeldy, as well as a \$0.4 million decline in technical development costs. Direct expenses associated with OTL-203 for MPS-IH increased by \$0.6 million primarily due to clinical and manufacturing costs associated with treating patients in our clinical trial. Direct expenses for OTL-201 for MPS-IIIA declined by \$1.2 million due to a \$1.4 million decline in manufacturing costs, offset by a \$0.2 million increase in clinical trial costs. Costs for OTL-202 for MPS-IIIB did not change materially as compared to the prior year period.

Direct research and development expenses for primary immune deficiency-related programs declined by \$1.2 million, primarily due to the de-prioritization and eventual termination of the license for OTL-101 for ADA-SCID in 2020 and 2021, respectively. Direct expenses associated with OTL-101 declined by \$0.8 million. This was due to a \$2.2 million decrease in manufacturing and process development costs with third-party contract manufacturers. Clinical-related costs increased by \$1.4 million, primarily due to non-cash provisions made in the second quarter of 2021 for estimated future clinical costs associated with our sponsored clinical trials for OTL-101. After taking a provision for our estimated future clinical obligations associated with our sponsored clinical trials, we do not expect to incur significant further costs associated with OTL-101 due to termination of the license with UCLA/UCLB. The decline in direct expenses for OTL-101 were offset by an increase in direct expenses for OTL-103 for WAS of \$0.8 million, which was primarily due to an increase in clinical trial costs. Direct expenses for OTL-102 for X-CGD declined by \$1.6 million, primarily due to a payment in the form of ordinary shares valued at \$0.8 million made to Oxford BioMedica upon entering into an amendment to an on-going agreement in 2020 that did not recur in 2021.

Direct research and development expenses for our blood disorder programs declined by \$0.8 million due to our de-prioritization of OTL-300 for TDT. In the future, we do not expect to incur significant direct costs associated with OTL-300. The increase in costs associated with other research and preclinical programs relates primarily to discovery-stage manufacturing and clinical costs, including programs targeting frontotemporal dementia and Crohn's disease. We expect these costs to continue to increase as part of our new strategic growth plan to focus on these less rare indications.

Unallocated research and development costs and offsets to research and development expenses decreased by \$6.8 million. This is due to \$5.7 million non-cash impairment charges associated with the consolidation and closure of our research and development and manufacturing facilities in California that occurred in the second quarter of 2020 that did not recur in 2021. Personnel costs also declined by \$0.3 million and share-based compensation declined by \$0.5 million. The personnel declines are attributable to severance charges incurred in the second quarter of 2020 that did not recur in 2021. Other research and development costs such as lab supplies and consumables, external manufacturing and process development, and other unallocated platform-related costs not attributable to a

specific developmental program increased by \$0.2 million. This was primarily due to an increase in platform-related manufacturing and clinical costs of \$0.7 million, and credits from the sublease of our Fremont Facility of \$0.5, which are recorded as an offset to research and development expense. The benefits of our U.K. research and development tax credit that is recorded as an offset to research and development expense increased by \$0.6 million in the first half of 2021 compared to the first half of 2020 due to increased qualifying costs. Accretion of the Strimvelis loss provision, which is also accounted for as an offset to research and development expense, were flat.

#### *Selling, general and administrative expenses*

The table below summarizes our selling, general and administrative expenses by functional area:

	Three months ended June 30,		
	2021	2020	Change
	(in thousands)		
<b>Selling, general and administrative expenses:</b>			
Personnel (excluding share-based compensation)	\$ 5,033	\$ 6,175	\$ (1,142)
Share-based compensation	3,406	3,408	(2)
Consulting, professional, and insurance-related costs	3,537	2,941	596
Marketing, promotions, and advocacy	1,049	1,845	(796)
Facilities and IT-related costs	942	1,164	(222)
Other	296	126	170
<b>Total selling, general, and administrative expenses:</b>	<b>\$ 14,263</b>	<b>\$ 15,659</b>	<b>\$ (1,396)</b>

Selling, general and administrative expenses were \$14.3 million in the second quarter of 2021, compared to \$15.7 million in the second quarter of 2020. The decline of \$1.4 million was primarily due to a decline in personnel-related costs of \$1.1 million primarily due to savings associated with our corporate restructuring, which occurred in the second quarter of 2020. Included in this decline is a \$0.7 million charge in 2020 associated with the separation of our former Chief Executive Officer that did not recur in 2021. Share-based compensation expense was flat. Consulting, professional, and insurance-related costs increased by \$0.6 million, primarily due to an increase in directors' and officers' insurance costs of \$0.2, and increased accounting and auditing fees of \$0.2 million. Expenses associated with marketing and commercialization of Strimvelis, and costs associated with increased promotional and advocacy activities in preparation for the potential future commercialization of our product candidates, if approved, declined by \$0.8 million. Facilities and IT-related costs declined by \$0.2 million.

#### *Other income (expense), net*

Other income (expense), net for the second quarter of 2021 and 2020 consisted of income of \$0.2 million and expense of \$0.6 million, respectively. During the second quarter of 2021, we had realized and unrealized gains on foreign currency transactions of \$0.6 million, compared to realized and unrealized losses of \$0.9 million for the second quarter of 2020. These realized and unrealized gains and losses are driven primarily by intercompany balances denominated in currencies other than our functional currency, the U.S. Dollar, and will fluctuate with changes in exchange rates. Additionally, we had interest income of \$0.1 million in the second quarter of 2021, compared to \$0.9 million in the second quarter of 2020. This decline in interest income is attributable to lower yields associated with our marketable securities. Interest expense was flat in the second quarter of 2021 as compared to the second quarter of 2020.

#### **Liquidity and capital resources**

From our inception through June 30, 2021, we have not generated significant revenue from product sales and incurred significant operating losses and negative cash flows from our operations. We acquired our commercial product Strimvelis and the program that is now Libmeldy from GSK in April 2018, and our product candidates are in various phases of preclinical and clinical development. In December 2020, the European Commission granted standard marketing authorization for Libmeldy. We expect to launch Libmeldy in Europe and generate product sales as early as 2021. To date, we have financed our operations primarily with proceeds from the sale of ADSs in our IPO and follow-on offering, proceeds from the sale of ordinary shares in our private placement, proceeds from the sale of convertible preferred shares, proceeds associated with two UK research and development tax relief programs, the Small and Medium-sized Enterprises research and development tax credit ("SME") program and the Research and Development Expenditure ("RDEC") program, reimbursements from our research agreement with UCLA and, following transfer of the ADA-SCID research program sponsorship from UCLA to us in July 2018, a grant from the California Institute of Regenerative Medicine ("CIRM"), and our Original Credit Facility and our Amended Credit Facility.

On February 27, 2020, we entered into a Sales Agreement with Cowen and Company, LLC, as agent, relating to an “at the market offering,” pursuant to which we may issue and sell ADSs representing our ordinary shares, having an aggregate offering price of up to \$100.0 million. As of June 30, 2021, we have not sold any shares under the Sales Agreement.

We currently have no ongoing material financing commitments, such as lines of credit or guarantees, that are expected to affect our liquidity over the next five years, other than our manufacturing, lease, and debt obligations described in our Annual Report.

We currently have no ongoing material financing commitments, such as lines of credit or guarantees, that are expected to affect our liquidity over the next five years, other than our manufacturing, lease, and debt obligations described in our Annual Report on Form 10-K, filed with the SEC on March 2, 2021.

#### Cash flows

The following table summarizes our cash flows for each of the periods presented:

	Six months ended June 30,	
	2021	2020
	(in thousands)	
Net cash used in operating activities	\$ (75,294)	\$ (88,012)
Net cash used in investing activities	(34,191)	108,038
Net cash provided by financing activities	153,856	2,582
Effect of exchange rate changes on cash	423	(485)
Net increase in cash, cash equivalents, and restricted cash	<u>\$ 44,794</u>	<u>\$ 22,123</u>

#### Operating activities

During the six months ended June 30, 2021, operating activities used \$75.3 million of cash, primarily resulting from our net loss of \$71.8 million. Cash usage from changes in our operating assets and liabilities was \$24.1 million, which was primarily driven by an increase in our U.K. research and development tax credit receivable of \$7.8 million and payout of our annual bonuses of \$7.2 million, offset by accruals associated with license intangible assets of \$2.6 million. Non-cash adjustments to operating activities of \$20.6 million was primarily due to \$11.8 million in non-cash share-based compensation expense, offset by \$0.8 million in amortization of the Strimvelis loss provision as an offset to research and development expense. Further, there were other non-cash adjustments of \$7.7 million, including unrealized foreign currency transaction gains on intercompany accounts by our U.K. subsidiary, using \$6.3 million that were driven by foreign currency revaluation, and deferred income taxes of \$1.4 million.

During the six months ended June 30, 2020, operating activities used \$88.0 million of cash, primarily resulting from our net loss of \$98.1 million. Cash usage from changes in our operating assets and liabilities was \$18.4 million, which was primarily driven by an increase in our U.K. research and development tax credit receivable of \$6.0 million and a decline in accounts payable and accrued expenses of \$9.6 million. The decline in accounts payable and accrued expenses is primarily attributable to the payout of our annual bonuses consisting of \$9.0 million in the first quarter of 2020. Non-cash adjustments to operating activities of \$28.5 million was primarily due to \$15.6 million in non-cash share-based compensation expense, and \$5.6 million in non-cash impairment charges associated with our restructuring, offset by \$2.0 million in amortization of the Strimvelis loss provision as an offset to research and development expense. Further, there were other non-cash adjustments, including unrealized foreign currency transaction losses on intercompany accounts by our U.K. subsidiary, of \$7.0 million that were driven by foreign currency revaluation.

#### Investing activities

During the six months ended June 30, 2021 and 2020, we used \$34.2 million and generated \$108.0 million, respectively, of cash in investing activities. The decline in cash generated from investing activities in the six months ended June 30, 2021 compared to 2020 is attributable to purchases of marketable securities of \$167.0 million, as compared to \$49.4 million, respectively. In the six months ended June 30, 2021 and 2020, investing activities used \$133.5 million and \$168.1 million, respectively, for the purchase in each period of highly rated, short duration marketable securities.

#### Financing activities

For the six months ended June 30, 2021 and 2020, cash provided by financing activities was \$154.0 million and \$2.6 million, respectively. In the six months ended June 30, 2021, we generated \$143.6 million of proceeds from the issuance of ordinary shares in our private placement, after payment of \$6.4 million in offering costs. Further, in the six months ended June 30, 2021, we generated

\$7.4 million associated with our entrance into the Amended Credit Facility (see Note 8 of our condensed consolidated financial statements). In the six months ended June 30, 2021, we had \$3.0 million in proceeds related to share plan activity, compared to \$2.6 million in the six months ended June 30, 2020.

### ***Funding requirements***

We expect our expenses and capital expenditures will remain consistent in the near term in connection with our ongoing activities as we advance the preclinical activities and clinical trials of our product candidates and as we:

- seek marketing approvals for our product candidates that successfully complete clinical trials, if any;
- continue to grow a sales, marketing and distribution infrastructure for our commercialization of Strimvelis in the European Union and planned commercial launch of Libmeldy in Europe, and any product candidates for which we may submit for and obtain marketing approval anywhere in the world;
- continue our development of our product candidates, including continuing our ongoing advanced registrational trials and supporting studies, and any other clinical trials that may be required to obtain marketing approval for our product candidates;
- perform research and development activities with respect to potential new product candidates;
- conduct investigational new drug application, or IND, and or clinical trial application, or CTA,-enabling studies for our preclinical programs;
- initiate additional clinical trials and preclinical studies for our other product candidates;
- seek to identify and develop, acquire or in-license additional product candidates;
- develop the necessary processes, controls and manufacturing data to obtain marketing approval for our product candidates, to support technology and process innovations and to support manufacturing of product to commercial scale;
- develop and implement plans to establish and operate our own in-house manufacturing operations and facility;
- hire and retain additional personnel, such as non-clinical, clinical, pharmacovigilance, quality assurance, regulatory affairs, manufacturing, distribution, legal, compliance, medical affairs, finance, general and administrative, commercial and scientific personnel;
- develop, maintain, expand and protect our intellectual property portfolio; and
- comply with our obligations as a public company.

Because of the numerous risks and uncertainties associated with biopharmaceutical product development, we are unable to accurately predict the timing or amount of increased expenses or when, or if, we will be able to achieve or maintain profitability. Even if we are able to generate product sales, we may not become profitable. If we fail to become profitable or are unable to sustain profitability on a continuing basis, then we may be unable to continue our operations at planned levels and be forced to reduce or terminate our operations.

We believe our existing cash will enable us to fund our operating expenses and capital expenditure requirements into the first half of 2023. We have based this estimate on assumptions that may prove to be wrong, and we could exhaust our available capital resources sooner than we expect.

### ***Critical Accounting Policies and Estimates***

Our condensed consolidated financial statements are prepared in accordance with accounting principles generally accepted in the United States, or GAAP. The preparation of our financial statements and related disclosures requires us to make estimates, assumptions and judgments that affect the reported amount of assets, liabilities, revenue, costs and expenses, and related disclosures. We believe that of our critical accounting policies which are described under the heading “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies and Significant Judgments and Estimates” in our Annual Report, the following accounting policies involve the most judgment and complexity:

- United Kingdom research and development tax credit
- Accrued research and development expenses
- Valuation of share-based compensation

Accordingly, we believe the policies set forth above are critical to fully understanding and evaluating our financial condition and results of operations. If actual results or events differ materially from the estimates, judgments and assumptions used by us in applying these policies, our reported financial condition and results of operations could be materially affected. There have been no material changes to our critical accounting policies since December 31, 2020.

#### **Off-balance sheet arrangements.**

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined in the rules and regulations of the SEC.

#### **Item 3. Quantitative and Qualitative Disclosures About Market Risk.**

##### *Interest rate sensitivity*

As of June 30, 2021, we had cash, cash equivalents, marketable securities, and restricted cash of \$269.3 million. Our exposure to interest rate sensitivity is impacted by changes in the underlying U.K. and U.S. bank interest rates. Our surplus cash has been invested in corporate bonds, commercial paper, U.S. treasuries, and money market accounts. We have not entered into investments for trading or speculative purposes. Due to the conservative nature of our investment portfolio, which is predicated on capital preservation of investments with short-term maturities, we do not believe an immediate one percentage point change in interest rates would have a material effect on the fair market value of our portfolio, and therefore we do not expect our operating results or cash flows to be significantly affected by changes in market interest rates.

We are subject to interest rate risk on our variable rate debt as changes in interest rates could adversely affect earnings and cash flows. A 100 basis-points increase in interest rates would have an annualized pre-tax effect of approximately \$0.3 million in our consolidated statements of operations and cash flows, based on current outstanding borrowings and effective interest rates on our variable rate debt. While our variable-rate debt may impact earnings and cash flows as interest rates change, it is not subject to changes in fair value.

We have borrowed \$33.0 million under the Amended Credit Facility. Amounts outstanding under the Amended Credit Facility bear interest at a variable interest rate of 5.95% plus LIBOR. As of June 30, 2021, the carrying value of the term loans under the Amended Credit Facility was \$32.7 million.

##### *Foreign currency exchange risk*

The Company is exposed to foreign currency exchange risk because it currently operates in the United Kingdom and the United States. The reporting currency of the Company is the U.S. Dollar. The Company has determined the functional currency of the ultimate parent company, Orchard Therapeutics plc, is U.S. Dollars because it predominantly raises finance and expends cash in U.S. Dollars, and expects to continue to do so in the future. Exchange gains or losses arising from foreign currency transactions are included in the determination of net loss for the respective periods. Assets and liabilities have been translated at the exchange rates at the balance sheet dates, while revenue and expenses are translated at the average exchange rates over the reporting period and shareholders' equity amounts are translated based on historical exchange rates as of the date of each transaction. Translation adjustments are not included in determining net loss but are included in our foreign exchange adjustment to other comprehensive loss, a component of shareholders' equity.

We do not currently engage in currency hedging activities in order to reduce our currency exposure, but we may begin to do so in the future. Instruments that may be used to hedge future risks include foreign currency forward and swap contracts. These instruments may be used to selectively manage risks, but there can be no assurance that we will be fully protected against material foreign currency fluctuations.

##### *LIBOR Reform*

In 2017, the United Kingdom's Financial Conduct Authority announced that after 2021 it would no longer compel banks to submit the rates required to calculate the London Interbank Offered Rate (LIBOR) and other interbank offered rates, which have been widely used as reference rates for various securities and financial contracts, including loans, debt and derivatives. This announcement indicates that the continuation of LIBOR on the current basis is not guaranteed after 2021. Regulators in the U.S. and other jurisdictions have been working to replace these rates with alternative reference interest rates that are supported by transactions in liquid and observable markets, such as the Secured Overnight Financing Rate (SOFR). Currently, our credit facilities reference LIBOR-based rates. The discontinuation of LIBOR will require these arrangements to be modified in order to replace LIBOR with an alternative reference interest rate, which could impact our cost of funds. Our credit facilities include a provision for the determination of a successor LIBOR rate.



**Item 4. Controls and Procedures.**

We maintain disclosure controls and procedures (as defined in Rules 13a-15(e) or 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act) that are designed to ensure that information required to be disclosed in reports that we file or submit under the Exchange Act is (1) recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms and (2) accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure.

Our management, with the participation of our principal executive officer and principal financial officer, evaluated the effectiveness of our disclosure controls and procedures as of the end of the period covered by this report. In designing and evaluating our disclosure controls and procedures, our management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives, and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Our principal executive officer and principal financial officer have concluded based upon the evaluation described above that, as of June 30, 2021, our disclosure controls and procedures were effective at the reasonable assurance level.

We continue to review and document our disclosure controls and procedures, including our internal controls and procedures for financial reporting, and may from time to time make changes aimed at enhancing their effectiveness and to ensure that our systems evolve with our business in accordance with the Exchange Act.

***Changes in internal control over financial reporting***

During the three months ended June 30, 2021, there have been no changes in our internal control over financial reporting (as defined in Rules 13a-15(f) or 15d-15(d) under the Exchange Act) that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

**Item 1. Legal Proceedings.**

From time to time, we may be a party to litigation or subject to claims incident to the ordinary course of business. Although the results of litigation and claims cannot be predicted with certainty, we currently believe that the final outcome of these ordinary course matters will not have a material adverse effect on our business. Regardless of the outcome, litigation can have an adverse impact on us because of defense and settlement costs, diversion of management resources and other factors. As of June 30, 2021, we were not a party to any material legal proceedings.

**Item 1A. Risk Factors.**

*Our business faces significant risks. This section of the Quarterly Report highlights some of the risks that may affect our future operating results. You should carefully consider the risks described below, as well as in our consolidated financial statements and the related notes included elsewhere in this Quarterly Report and in our other SEC filings. The occurrence of any of the events or developments described below could harm our business, financial condition, results of operations and/or prospects. This Quarterly Report also contains forward-looking statements that involve risks and uncertainties. Our results could materially differ from those anticipated in these forward-looking statements as a result of certain factors including the risks described below and elsewhere in this Quarterly Report and our other SEC filings. See “Special Note Regarding Forward-Looking Statements” above.*

**Risks related to our financial position and need for additional capital**

***We have incurred net losses since inception. We expect to incur net losses for the foreseeable future and may never achieve or maintain profitability.***

Since inception, we have incurred net losses. We incurred net losses of \$71.8 million and \$98.1 million for the six months ended June 30, 2021 and 2020, respectively. We historically have financed our operations primarily through private placements of our convertible preferred shares and through sales of our ADSs in our initial public offering and follow-on offering. We have devoted substantially all of our efforts to research and development, including clinical and preclinical development and arranging the manufacturing of our product candidates, establishing a commercial infrastructure to support the commercialization of Strimvelis in the European Union, building a global commercial infrastructure to support commercialization of our product candidates, including Libmeldy (OTL-200) and OTL-103 for Wiskott Aldrich syndrome, or WAS, if such product candidates are approved, as well as expanding our team. Prior to the approval of Libmeldy in Europe in December 2020, Strimvelis was our only product that had been approved for sale. Absent the realization of sufficient revenues from product sales of Libmeldy and Strimvelis, and from sales of our current or future product candidates, if approved, we may never attain profitability.

We expect to continue to incur significant expenses and increasing operating losses for the foreseeable future. We anticipate that our expenses will increase substantially over time if, and as, we:

- seek marketing approvals for our product candidates that successfully complete clinical trials or meet primary endpoints, if any;
- complete our build-out of our commercial operations in preparation to launch, market and sell Libmeldy in Europe and grow such infrastructure for the commercialization (or anticipated commercialization) of any product candidates for which we may submit for and obtain marketing approval anywhere in the world;
- continue to support a sales, marketing and distribution infrastructure for Strimvelis in the European Union;
- continue our development of our product candidates, including continuing (i) our ongoing advanced registrational trials and supporting studies of OTL-200 for MLD and OTL-103 for WAS, (ii) our ongoing and planned clinical trials of OTL-102 for X-linked chronic granulomatous disease, or X-CGD, OTL-203 for mucopolysaccharidosis type I Hurler variant, or MPS-IH, and OTL-201 for mucopolysaccharidosis type IIIA, or MPS-III A, (iii) our ongoing clinical trials and any regulatory updates for OTL-300 for transfusion-dependent beta-thalassemia, or TDT, and (iv) and any other clinical trials that may be required to obtain marketing approval for our product candidates;
- conduct investigational new drug application, or IND, or clinical trial application, or CTA, enabling studies for our preclinical programs;
- initiate additional clinical trials and preclinical studies for our other product candidates or future product candidates, including new research programs in genetic subsets of frontotemporal dementia, or FTD, and Crohn’s disease;
- seek to identify and develop, acquire or in-license additional product candidates or technologies;
- develop the necessary processes, controls and manufacturing data to obtain marketing approval for our product candidates, to support technology and process innovation, and to support manufacturing of product to commercial scale;
- establish partnerships with contract development and manufacturing organizations, or CDMOs;
- develop and implement plans to establish and operate our own in-house manufacturing operations and facility in the long-term;

- hire and retain additional personnel, such as non-clinical, clinical, pharmacovigilance, quality, regulatory affairs, process development and control, manufacturing, supply chain, legal, compliance, medical affairs, finance, general and administrative, commercial and scientific personnel;
- encounter delays or setbacks in the preclinical testing, enrollment or conduct of our clinical trials for our product candidates, encounter delays in regulatory review timelines, such as for our marketing authorization application, or MAA, under review by the European Medicines Agency, or EMA, or experience high levels of absenteeism, due to the COVID-19 pandemic;
- develop, maintain, expand and protect our intellectual property portfolio; and
- comply with our obligations as a public company.

In December 2020, we received standard marketing authorization for Libmeldy in the European Union as well as the United Kingdom, Iceland, Liechtenstein and Norway. Although we are preparing to launch the commercialization of Libmeldy in Europe, to date Strimvelis is our only product that we have sold and, to date, it has only been approved for sale in the European Union for the treatment of adenosine deaminase severe combined immunodeficiency, or ADA-SCID. Since receiving marketing authorization, only a limited number of patients have been treated with Strimvelis. There is no assurance that sales of Strimvelis will resume, and even if resumed, our revenue from sales of Strimvelis alone will not be sufficient for us to become profitable. Under the terms of our asset purchase and license agreement with GSK, or the GSK Agreement, we are required to use our best endeavors to make Strimvelis commercially available in the European Union until such time as an alternative gene therapy, is commercially available for patients, and at all times at the San Raffaele Hospital in Milan, Italy, provided that a minimum number of patients continue to be treated at this site.

To become and remain profitable, we must develop and eventually commercialize product candidates with greater market potential. This will require us to be successful in a range of challenging activities, and our expenses will increase substantially as we seek to complete necessary preclinical studies and clinical trials of our product candidates, and manufacture, market and sell Libmeldy or any future product candidates for which we may obtain marketing approval, if any, and satisfy any post-marketing requirements. We may never succeed in any or all of these activities and, even if we do, we may never generate revenues that are significant or large enough to achieve profitability. If we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. Our failure to become and remain profitable would decrease the value of our company and could impair our ability to raise capital, maintain our research and development efforts, expand our business or continue our operations.

***We have only generated revenue from sales of Strimvelis to date, and we may never be profitable.***

Our ability to generate revenue from product sales and achieve profitability depends on our ability, alone or with collaborative partners, to successfully develop and commercialize products. Although we have generated revenue from the sale of Strimvelis, we do not expect to achieve profitability unless and until we successfully commercialize Libmeldy in Europe and complete the development of, and obtain the regulatory approvals necessary to commercialize, additional product candidates. For example, in connection with the GSK Agreement, we recorded a liability for Strimvelis representing the fair value of the future expected costs to maintain the marketing authorization in excess of expected future sales. Our ability to generate future revenues from product sales depends heavily on our and our collaborators' success in:

- completing research and preclinical development of our product candidates and identifying attractive new gene therapy product candidates;
- conducting and fully enrolling clinical trials in the development of our product candidates, including maintaining or reaching target enrollment levels and collecting the necessary follow-up data during the COVID-19 pandemic;
- seeking and obtaining regulatory and marketing approvals for product candidates for which we complete registrational clinical trials that achieve their primary endpoints;
- launching and commercializing Libmeldy in Europe and other product candidates for which we obtain regulatory and marketing approval by expanding our existing sales force, marketing and distribution infrastructure or, alternatively, collaborating with a commercialization partner;
- maintaining marketing authorization and related post-marketing commitments for regulatory compliance for Libmeldy and Strimvelis in the European Union;
- qualifying for, and maintaining, adequate coverage and reimbursement by government and payors for Libmeldy and Strimvelis and any product candidate for which we obtain marketing approval;
- establishing and maintaining supply and manufacturing processes and relationships with third parties that can provide adequate, in both amount and quality, products and services to support clinical development of our product candidates and the market demand for Libmeldy and Strimvelis, if sales are resumed, and any of our product candidates for which we obtain marketing approval;

- obtaining market acceptance of Libmeldy and Strimvelis, if sales are resumed, and our product candidates, if approved, as viable treatment options with acceptable safety profiles;
- addressing any competing technological and market developments;
- implementing additional internal systems and infrastructure, as needed, including robust quality systems and manufacturing capabilities;
- negotiating favorable terms in any collaboration, licensing or other arrangements into which we may enter and performing our obligations under such arrangements;
- maintaining, protecting and expanding our portfolio of intellectual property rights, including patents, trade secrets and know-how; and
- attracting, hiring and retaining qualified personnel.

We anticipate incurring significant costs associated with commercializing Libmeldy in Europe and any other products for which we obtain marketing approval. Our expenses could increase beyond expectations if we are required by the United States Food and Drug Administration, or the FDA, or the EMA or other regulatory authorities to perform clinical and other studies in addition to those that we currently anticipate or if we encounter delays or clinical holds in the development of our product candidates. Even if we commercialize Libmeldy in Europe, resume generating revenue from sales of Strimvelis and are able to generate revenues from the sale of any other approved products, we may not become profitable and may need to obtain additional funding to continue operations.

***We will need additional funding, which may not be available on acceptable terms, or at all. Failure to obtain this necessary capital when needed may force us to delay, limit or terminate our product development efforts or other operations.***

Our operations have consumed a substantial amount of cash since our inception, and we recorded negative cash flows from operating activities during the first half of 2021, primarily due to our net loss of \$71.8 million for that period. We expect our expenses to increase in connection with our ongoing activities, particularly as we (i) prepare to launch the commercialization of Libmeldy in Europe, (ii) continue to support our commercial infrastructure in support of Strimvelis, if sales resume, and our anticipated commercialization of OTL-103 for WAS, if approved, (iii) continue the research and development of, initiate further clinical trials of and seek marketing approval for, our product candidates and (iv) continue to enhance and optimize our vector technology and manufacturing processes. In addition, we expect to incur significant expenses related to product sales, post-marketing regulatory commitments, medical affairs, marketing, manufacturing, distribution and quality systems to support Libmeldy and Strimvelis, if sales resume, and any other products for which we obtain marketing approval. Furthermore, we will continue to incur additional costs associated with operating as a public company, including with respect to the system and process evaluations and testing of our internal controls and financial reporting. Accordingly, we will need to obtain substantial additional funding in connection with our continuing operations. If we are unable to raise capital when needed or on reasonable terms, or at all, we would be forced to delay, reduce or eliminate certain of our research and development programs and/or commercialization efforts.

Our future capital requirements will depend on many factors, including:

- the success of our commercialization efforts and market acceptance of Libmeldy in Europe;
- the cost and our ability to maintain the commercial infrastructure and manufacturing capabilities required, including quality systems, regulatory affairs, compliance, product sales, medical affairs, commercial marketing, manufacturing and distribution, to support Libmeldy in Europe, Strimvelis in the European Union, if sales resume, and any other products for which we obtain marketing approval;
- qualifying for, and maintaining adequate coverage and reimbursement by, government and payors on a timely basis for Libmeldy and Strimvelis, if sales resume, and any other products for which we obtain marketing approval;
- the costs of preparing and submitting marketing approvals for any of our product candidates that successfully complete clinical trials, and the costs of maintaining marketing authorization and related post-marketing commitments for regulatory compliance for any products for which we obtain marketing approval;
- the scope, progress, results and costs of drug discovery, laboratory testing, preclinical development and clinical trials for our product candidates or future product candidates, including the need to conduct long-term follow-up for up to 15 years for our development programs and additional clinical trials to support marketing approvals for our product candidates;
- our ability to enroll clinical trials in a timely manner and to quickly resolve any delays or clinical holds that may be imposed on our development programs, including our ability to resolve delays in trial enrollment as a result of the COVID-19 pandemic;
- the costs associated with our manufacturing process development and evaluation of third-party manufacturers and suppliers;
- the costs, timing and outcome of regulatory review of our product candidates;
- revenue, if any, received from commercial sales of Libmeldy and Strimvelis, if such sales resume, and any other products for which we may obtain marketing approval, including amounts reimbursed by government and third-party payors;

- the costs of preparing, filing and prosecuting patent applications, maintaining and enforcing our intellectual property rights and defending intellectual property-related claims;
- the terms of our current and any future license agreements and collaborations; and
- the extent to which we acquire or in-license other product candidates, technologies and intellectual property.

Identifying potential product candidates and conducting preclinical testing and clinical trials, as well as preparing for the potential commercialization of these product candidates, is a time-consuming, expensive and uncertain process that takes years to complete. We may never generate the necessary data or results required to obtain marketing approval and achieve product sales for any products other than Strimvelis. In addition, Libmeldy and Strimvelis or any other products for which we obtain and maintain marketing approval may not achieve commercial success. Any product revenues from our product candidates, if any, will be derived from or based on sales of products that may not be commercially available for many years, if at all. Accordingly, we will need to continue to rely on additional financing to achieve our business objectives. Adequate additional financing may not be available to us on acceptable terms, or at all.

***Raising additional capital may cause dilution to our existing shareholders, restrict our operations or cause us to relinquish valuable rights.***

We may seek to raise capital through a combination of public and private equity offerings, debt financings, strategic partnerships and alliances and licensing arrangements. To the extent that we raise capital through the sale of equity, convertible debt securities or other equity-based derivative securities, ownership percentages of all our shareholders may be diluted and the terms may include liquidation or other preferences that adversely affect their rights as shareholders. Any additional indebtedness we incur would result in additional increased fixed payment obligations and could involve restrictive covenants, such as limitations on our ability to incur additional debt, limitations on our ability to acquire or license intellectual property rights and other operating restrictions that could adversely impact our ability to conduct our business. Furthermore, the issuance of additional securities, whether equity or debt, by us, or the possibility of such issuance, may cause the market price of our ADSs to decline and existing shareholders may not agree with our financing plans or the terms of such financings. If we raise funds through strategic partnerships and alliances and licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, or our product candidates, or grant licenses on terms unfavorable to us. Adequate financing may not be available to us on acceptable terms, or at all. The significant volatility in public equity markets and the disruptions to the U.S. and global economies caused by the COVID-19 pandemic may make it more difficult to raise capital through sales of our ADSs on favorable terms, or at all.

***Our limited operating history may make it difficult to evaluate the success of our business to date and to assess our future viability.***

We were incorporated in August 2018 to become a holding company for Orchard Therapeutics (Europe) Limited, which was founded in 2015, and its subsidiaries. Our operations, to date, have been limited to corporate organization, recruiting key personnel, business planning, raising capital, acquiring certain of our product candidate portfolios and rights to our technology, identifying potential product candidates, undertaking preclinical studies and planning and supporting clinical trials of our product candidates, establishing research and development and manufacturing capabilities, establishing a quality management system, establishing a commercial infrastructure to support the commercialization of Strimvelis in the European Union, if sales resume, and building a global commercial infrastructure to support commercialization of Libmeldy and OTL-103 for WAS, if approved. We have not yet demonstrated the ability to manufacture products on a commercial scale or conduct sales and marketing activities necessary for successful commercialization. Consequently, any predictions about our future success or viability may not be as accurate as they could be if we had a longer operating history. In addition, as a new business, we may encounter unforeseen expenses, difficulties, complications, delays and other known and unknown factors and setbacks.

**Risks related to the discovery, development and regulatory approval of our product candidates**

***Our gene therapy product candidates are based on a novel technology, which makes it difficult to predict the time and cost of product candidate development and of subsequently obtaining regulatory approval.***

We have concentrated our research and development efforts on our autologous *ex vivo* gene therapy approach, and our future success depends on our successful development of commercially viable gene therapy products. There can be no assurance that we will not experience problems or delays in developing new products and that such problems or delays will not cause unanticipated costs, or that any such development problems can be solved. Although we have established a commercial infrastructure for the production of Strimvelis in the European Union and we are building a global commercial infrastructure to support commercialization of Libmeldy and OTL-103 for WAS, if approved, we may experience delays in establishing a sustainable, reproducible and scalable manufacturing capability with commercial CDMO partners, which may prevent us from commercializing our product candidates for which we obtain marketing approval on a timely or profitable basis, if at all.

In addition, the clinical trial requirements of the FDA, EMA and other foreign regulatory authorities and the criteria these regulators use to determine the safety and efficacy of a product candidate can vary substantially, for example, based upon the type, complexity, novelty and intended use and market of such product candidates. The regulatory approval process for novel product candidates such as ours can be more expensive and take longer than for other, better known or more extensively studied product candidates. To date, only a limited number of gene therapies have received marketing authorization from the FDA or EMA. We have limited experience in preparing, submitting and maintaining regulatory submissions. It is difficult to determine how long it will take or how much it will cost to obtain regulatory approvals for our product candidates in the United States, Europe or in other jurisdictions, or how long it will take to commercialize Libmeldy in Europe or any other product candidates for which we obtain marketing approval. Approvals by the EMA may not be indicative of what the FDA may require for approval, and vice versa.

***The results from our clinical trials for OTL-200 for MLD, OTL-103 for WAS and for any of our other product candidates may not be sufficiently robust to support marketing approval or the submission of marketing approval. Before we submit our product candidates for marketing approval, the FDA and/or the EMA may require us to conduct additional clinical trials, or evaluate patients for an additional follow-up period.***

The results from our clinical trials may not be sufficiently robust to support the approval of or submission of marketing approval for our product candidates by the FDA for OTL-200 and by the FDA and EMA for OTL-103 for WAS. The FDA and/or EMA normally require two registrational trials to approve a drug or biologic product, and thus the FDA and/or EMA may require that we conduct additional clinical trials of our product candidates prior to a BLA or MAA submission. The FDA and/or EMA typically does not consider a single registrational clinical trial to be adequate to serve as sufficient evidence to support a marketing authorization unless it is, among other things, well-controlled and demonstrates a clinically meaningful effect on mortality, irreversible morbidity, or prevention of a disease with potentially serious outcome, and a confirmatory study would be practically or ethically impossible.

Due to the nature of the indications our product candidates are designed to treat, and the limited number of patients with these conditions, a placebo-controlled and blinded study is not always practicable for ethical and other reasons. Accordingly, in some cases our registrational programs rely on natural history models to demonstrate clinical efficacy. While the FDA recognizes the potential for natural history models to alleviate the need for placebo arms in trials for drugs that target very rare diseases, where trial recruitment can be especially challenging, the FDA has found the use of natural history data as a historical comparator to be unsuitable for adequate and well-controlled trials in many circumstances. The FDA generally finds trials using historical controls to be credible only when the observed effect is large in comparison to variability in disease course. It is possible the FDA will not consider our comparisons to natural history data and, where available, historical transplant data or intra-subject comparison between before gene therapy and after gene therapy, to provide clinically meaningful results. Additionally, even though OTL-200 and OTL-103 for WAS have achieved the primary endpoints in their respective ongoing registrational clinical trials, the FDA has not (and in the case of OTL-103, the EMA has also not) yet approved the clinical meaningfulness of the trial results and their sufficiency to support a marketing authorization.

For example, the FDA has provided written feedback on the sufficiency of our data package for OTL-200, including the clinical endpoints, natural history analysis and chemistry and manufacturing and controls, or CMC, data package. Although the FDA cleared our IND application for OTL-200 in 2020 and we received Regenerative Medicine Advanced Therapy, or RMAT, designation in 2021, there can be no guarantee we will be successful in resolving open matters to the FDA's satisfaction before the intended BLA submission, in which case the adequacy of our clinical endpoints, natural history analysis and CMC data package to support a potential BLA submission and approval will be review issues. We have also received written feedback from the FDA on the sufficiency and adequacy of our data package for OTL-103 for WAS. The FDA has advised us that the sufficiency of such package to support a BLA submission will be a review issue and recommended that we collect additional CMC and clinical data to support any such submission. We continue to engage with the FDA as we seek to address their recommendations and identify expeditious paths to market for our product candidates.

It is possible that the FDA or EMA may recommend or require us to conduct further studies, analyses or registrational trials with respect to our product candidates, possibly involving a larger sample size or a different clinical trial design. The FDA or EMA may also require that we conduct a longer follow-up period of patients treated with our product candidates prior to accepting a BLA or MAA submission, as applicable.

In addition, data obtained from preclinical and clinical activities are subject to varying interpretations, which may delay, limit or prevent regulatory approval. There can be no assurance that the FDA, EMA or other foreign regulatory bodies will find the efficacy endpoints in our registrational trials or any efficacy endpoint we propose in future registrational trials to be sufficiently validated and clinically meaningful, or that our product candidates will achieve the pre-specified endpoints in current or future registrational trials to a degree of statistical significance, and with acceptable safety profiles. The FDA may further refer any future BLA submission to an advisory committee for review, evaluation, and recommendation as to whether the application should be approved. This review may add to the time for approval, and although the FDA is not bound by the recommendation of an advisory committee, objections or

concerns expressed by the advisory committee may cause the FDA to delay or deny approval. We also may experience regulatory delays or rejections as a result of many factors, including serious adverse events, or SAEs, involving our product candidates, changes in regulatory policy or changes in requirements during the period of our product candidate development. Any such delays could materially and adversely affect our business, financial condition, results of operations and prospects.

We expect that the FDA and EMA will assess the totality of the safety and efficacy data from our product candidates in reviewing any future BLA or MAA submissions. Based on this assessment, the FDA or EMA may require that we conduct additional preclinical studies or clinical trials prior to submitting or approving a BLA or MAA for our target indications.

It is possible that the FDA or the EMA may not consider the results of our clinical trials, including reliance on foreign clinical data, to be sufficient for approval of our product candidates. If the FDA or the EMA requires additional trials, we would incur increased costs and delays in the marketing approval process, which may require us to expend more resources than we have available. In addition, it is possible that the FDA and the EMA may have divergent opinions on the elements necessary for a successful BLA and MAA, respectively, which may cause us to alter our development, regulatory and/or commercialization strategies.

***Regulatory requirements governing gene and cell therapy products have evolved and may continue to change in the future. Such requirements may lengthen the regulatory review process, require us to perform additional studies, and increase our development costs or may force us to delay, limit, or terminate certain of our programs.***

Regulatory requirements governing gene and cell therapy products have evolved and may continue to change in the future. The FDA has established the Office of Tissues and Advanced Therapies within its Center for Biologics Evaluation and Research, or CBER, to consolidate the review of gene therapy and related products, and has established the Cellular, Tissue and Gene Therapies Advisory Committee to advise CBER in its review when called upon. The NIH has refocused the NIH Recombinant DNA Advisory Committee and changed its name to the Novel and Exceptional Technology and Research Advisory Committee, or NExTRAC. NExTRAC is a federal advisory committee that provides recommendations to the NIH Director and a public forum for the discussion of the scientific, safety, and ethical issues associated with emerging biotechnologies, which include, but are not restricted to, technologies surrounding advances in recombinant or synthetic nucleic acid research such as human gene transfer. These regulatory review committees and advisory groups and any new guidelines they promulgate may lengthen the regulatory review process, require us to perform additional studies, increase our development costs, lead to changes in regulatory positions and interpretations, delay or prevent approval and commercialization of these product candidates or lead to significant post-approval limitations or restrictions.

The FDA and EMA have each expressed interest in further regulating biotechnology, including gene therapy and genetic testing. For example, the EMA advocates a risk-based approach to the development of a gene therapy product. Agencies at both the federal and state level in the United States, as well as the U.S. congressional committees and other governments or governing agencies, have also expressed interest in further regulating the biotechnology industry. Such action may delay or prevent commercialization of some or all of our product candidates. Adverse events in clinical trials of gene therapy products conducted by others may cause the FDA or other oversight bodies to change the requirements for approval of any of our product candidates, which could require additional preclinical studies or clinical trials to support the marketing approval of our product candidates or which could make our product candidates unable to successfully obtain approval. Similarly, the European Commission may issue new guidelines concerning the development and marketing authorization for gene therapies and require that we comply with these new guidelines, which could require additional preclinical studies or clinical trials to support the marketing approval of our product candidates or which could make our product candidates unable to successfully obtain approval.

As we advance our product candidates, we are required to consult with these regulatory and advisory groups and comply with applicable guidelines. If we fail to do so, we may be required to delay or discontinue development of certain of our product candidates. These additional processes may result in a review and approval process that is longer than we otherwise would have expected. Delay or failure to obtain, or unexpected costs in obtaining, the regulatory approval necessary to bring a potential product to market could decrease our ability to generate sufficient product revenue, and our business, financial condition, results of operations and prospects would be materially and adversely affected.

The FDA and EMA have released a series of final guidance documents and a draft guidance document for consultation, which amongst other topics, included various aspects of gene therapy product development, review, and approval, including aspects relating to clinical and manufacturing issues related to gene therapy products. We cannot be certain whether future guidance will be issued and be relevant to, or have an impact on, our gene therapy programs or the duration or expense of any applicable regulatory development and review processes.

***Libmeldy, Strimvelis and our product candidates and the process for administering Libmeldy, Strimvelis and our product candidates may cause serious or undesirable side effects or adverse events or have other properties that could delay or prevent regulatory approval, limit commercial potential or result in significant negative consequences for our company.***

Following treatment with our gene therapies, patients may experience changes in their health, including illnesses, injuries, discomforts or a fatal outcome. It is possible that as we test our product candidates in larger, longer and more extensive clinical programs, or as use of our product candidates becomes more widespread if they receive regulatory approval, illnesses, injuries, discomforts and other adverse events that were observed in previous clinical trials, as well as conditions that did not occur or went undetected in previous clinical trials, will be reported by patients. Gene therapies are also subject to the potential risk that occurrence of adverse events will be delayed following administration of the gene therapy due to persistent biological activity of the genetic material or other components of the vectors used to carry the genetic material. Many times, additional safety risks, contraindications, drug interactions, adverse events and side effects are only detectable after investigational products are tested in larger scale, registrational trials or, in some cases, after they are made available to patients on a commercial scale after approval. The FDA generally requires long-term follow-up of study subjects. Although the risk profile of a gene therapy candidate is a factor in determining the adequacy of such long-term follow-up, the FDA currently recommends that sponsors observe study subjects for potential gene therapy-related adverse events for a 15-year period, including a minimum of five years of annual examinations followed by ten years of annual queries, either in person or by questionnaire, of study subjects. If additional experience indicates that any of our product candidates or similar products developed by other companies has side effects or causes serious or life-threatening side effects, the development of such product candidate may fail or be delayed, or, if the product has received regulatory approval, such approval may be revoked or limited.

Gene therapy is still a relatively new approach to disease treatment and additional adverse side effects could develop. Possible adverse side effects and adverse events that may occur with treatment with gene therapy products include an immunologic reaction early after administration that could substantially limit the effectiveness of the treatment or represent safety risks for patients. Another traditional safety concern for gene therapies using viral vectors has been the possibility of insertional mutagenesis (or oncogenesis) by the vectors, leading to malignant transformation of transduced cells. There have been several adverse events and SAEs attributed to gene therapy treatments in the past, including reported cases of leukemia with the use of gammaretrovirus vector and death seen in other clinical trials. In October 2020, we were notified that a patient treated with Strimvelis under a compassionate use program in 2016 had been diagnosed with lymphoid T cell leukemia. Subsequent findings confirmed that the patient's leukemia was due to insertional oncogenesis attributable to treatment with Strimvelis. The EMA's Committee for Medicinal Products for Human Use, or CHMP, concluded that the risk-benefit balance remains favorable and requested that the Strimvelis product information identify insertional mutagenesis (or oncogenesis) as an "important identified risk" instead of an "important potential risk" in light of this event.

Strimvelis is the only gammaretroviral vector-based gene therapy in our portfolio. Libmeldy and all of our pipeline therapies employ the self-inactivating (SIN) lentiviral vector-based approach, which has been specifically designed to avoid insertional oncogenesis after administration. Although to our knowledge and as of the date of this report no evidence of insertional oncogenesis has been observed with lentiviral vector-based HSC gene therapy in any of our programs, there can be no assurance that this will continue to be the case. Moreover, while our gene therapy approach is designed to avoid immunogenicity after administration, there can be no assurance that patients would not develop antibodies that may impair treatment. Our approach involves the use of integrating vectors, which have the potential for genomic disruption and therefore could interfere with other genes with adverse clinical effects. If any of our gene therapy product candidates demonstrates adverse side effects or adverse events at unacceptable rates or degrees of severity, we may decide or be required to halt or delay clinical development of such product candidates.

In addition to side effects and adverse events caused by our product candidates, the conditioning, administration process or related procedures also can cause adverse side effects and adverse events. A gene therapy patient is generally administered cytotoxic drugs to remove stem cells from the bone marrow to create sufficient space in the bone marrow for the modified stem cells to engraft and produce new cells. This procedure compromises the patient's immune system. While certain of our product candidates are designed to utilize milder conditioning regimens that are intended to require only limited removal of a patient's bone marrow cells, the conditioning regimens may not be successful or may nevertheless result in adverse side effects and adverse events. If in the future we are unable to demonstrate that such adverse events were caused by the conditioning regimens used, or administration process or related procedure, the FDA, the European Commission, EMA or other regulatory authorities could order us to cease further development of, or deny approval of, our product candidates for any or all target indications. Even if we are able to demonstrate that adverse events are not related to the drug product or the administration of such drug product, such occurrences could affect patient recruitment, the ability of enrolled patients to complete the clinical trial, or the commercial viability of any product candidates that obtain regulatory approval.

Additionally, the FDA could require us to adopt a Risk Evaluation and Mitigation Strategy, or REMS, as a condition of approval to ensure that the benefits of our product candidates outweigh their risks, which may include, among other things, a medication guide outlining the risks of the product for distribution to patients, a communication plan to health care practitioners, and restrictions on how



or where the product can be distributed, dispensed or used. Other non-U.S. regulatory authorities could impose other specific obligations, such as through a risk management plan, or RMP, submitted to the EMA. Furthermore, if we or others later identify undesirable side effects caused by Strimvelis, Libmeldy or our product candidates, several potentially significant negative consequences could result, including:

- regulatory authorities may suspend or withdraw approvals of such product or product candidate;
- regulatory authorities may require additional warnings or limitations of use in product labeling;
- we may be required to change the way a product candidate is distributed, dispensed, or administered or conduct additional clinical trials;
- we could be sued and held liable for harm caused to patients; and
- our reputation may suffer.

Any of these events could prevent us from achieving or maintaining market acceptance of Libmeldy and Strimvelis, if sales resume following investigation of the adverse event described above, and any other products for which we obtain marketing approval and could significantly harm our business, prospects, financial condition and results of operations.

***To date, most of the clinical trials for our product candidates were conducted as investigator-sponsored clinical trials using drug product manufactured at academic sites. Regulatory authorities may closely scrutinize the data collected from these trials and may require that we conduct additional clinical trials prior to any marketing approval.***

We have limited experience conducting company-sponsored clinical trials and to date most of our product candidates have been evaluated under investigator-sponsored clinical trials using drug product manufactured at the applicable or relevant academic site. We did not control the design or administration of these investigator-sponsored trials, nor the submission or approval of any IND or foreign equivalent required to conduct these clinical trials. Investigator-sponsored clinical trials are often conducted under less rigorous clinical and manufacturing standards than those used in company-sponsored clinical trials. For example, the drug product used in our company-sponsored clinical trials is manufactured by third party CDMOs using current good manufacturing practices, or cGMP, standards. Accordingly, regulatory authorities may closely scrutinize the data collected from these investigator-sponsored clinical trials and may require us to obtain and submit additional clinical data prior to granting any marketing approval, which could delay clinical development or marketing approval of our product candidates. We will be required to demonstrate comparability between the manufacturing process used at academic centers with the manufacturing process used at CDMOs, and we cannot provide assurances that we will satisfy such comparability requirements. We may also be required to demonstrate improved quality and drug product manufacturing state of control in accordance with cGMP standards. For example, in the compassionate use program conducted by Great Osmond Street Hospital, or GOSH, one patient experienced an SAE, staphylococcal infection, possibly resulting from a bacterial growth noted in samples of the fresh drug product during the transduction procedure at this academic facility. A similar SAE, bacteremia, was observed in the clinical trial conducted at University of California Los Angeles, or UCLA, for our since-returned program OTL-101 for ADA-SCID with the fresh drug product manufactured at the academic facility, also possibly due to contamination of the drug product. The bacteremia resolved on day three without sequelae. We believe that our commercial manufacturing processes for our product candidates, together with cryopreserved formulation, which allows for safety/microbiological testing to be completed prior to drug infusion to the patient, could mitigate the risk of contamination of products that might have resulted in such infections, but there can be no assurance that this will be the case. To the extent that the results of our current company-sponsored trials are inconsistent with, or different from, the results of any investigator-sponsored trials or raise concerns regarding our product candidates, the regulatory authorities may question the results from some or all of these trials, and may require us to obtain and submit additional clinical data from drug product manufactured by CDMOs prior to granting any marketing approval, which could delay clinical development or marketing approval of our product candidates.

***We may be unable to demonstrate comparability between drug product manufactured using hematopoietic stem cells, or HSCs, derived from the patient's mobilized peripheral blood and drug product manufactured using HSCs derived from the patient's bone marrow and/or comparability between drug product that has been cryopreserved and fresh drug product and/or demonstrate comparability between the manufacturing process used at academic centers with the manufacturing process used at CDMOs. Failure to demonstrate such comparability could adversely affect our ability to secure regulatory approval for our product candidates or could adversely affect the commercial viability of our product candidates if approved for use using only HSCs derived using bone marrow and/or fresh drug product.***

To date, most of the patients who have been treated in clinical trials involving our product candidates received fresh drug product manufactured using HSCs derived from the patient's bone marrow at academic centers. We are currently evaluating our product candidates and plan to seek marketing approval using drug product that is manufactured at CDMOs using HSCs derived from either the patient's bone marrow or mobilized peripheral blood and using a procedure by which the gene-modified HSCs are cryopreserved in order to maintain the cellular material in suitable condition until it is thawed prior to being infused into the patient.

In those cases where clinical trials were conducted using vector and/or drug product manufactured at academic research centers, we will need to demonstrate comparability between vector and drug product manufactured by our CDMOs with vector and/or drug product manufactured at such academic centers. Similarly, in those cases where clinical trials were conducted using fresh drug product, we will need to demonstrate comparability between drug product that has been cryopreserved and fresh drug product. In some cases, clinical trials were conducted using drug product using bone marrow or mobilized peripheral blood, or both, as the cellular source. In some cases, we may seek to demonstrate comparability between drug product manufactured using one cellular source and another. In other cases, we may elect to initially seek approval of our product candidate using one cellular source only and subsequently seek approval for the use of the other cellular source. We cannot be assured that the FDA, EMA or other regulatory authority will not require us to conduct additional analytical comparability analyses, preclinical studies and/or clinical trials before approving our product candidates using these production methods and processes. Moreover, we cannot be assured that our analytical comparability analyses or clinical trials will be sufficiently robust to support approval of our product candidates using these production methods and processes. For example, in connection with our OTL-200 (Libmeldy) program, the FDA has noted that we may have challenges demonstrating comparability between data collected at one manufacturing facility using bone marrow and data collected at another manufacturing facility using bone marrow or peripheral blood, and both the FDA and the EMA have advised us that they will require clinical data using drug product that has been cryopreserved as part of our planned BLA and MAA submissions for OTL-103 for WAS.

If any of the FDA, EMA or other regulatory authority does not accept our comparability data or if an adequate potency assay for a product candidate is not available or supported by such regulatory authority, our regulatory approval for such product candidate, if any, will be limited or delayed. For example, if one or more of these regulatory authorities does not accept that our cryopreservation process produces a product candidate that is comparable to our fresh drug product, our regulatory approval, if any, would be limited to our fresh product candidate until we are able to provide the regulators with satisfactory comparability data, which may include data from additional clinical trials or require additional test method development. Potency assays that measure strength (*e.g.*, enzymatic activity, or other relevant function) of each active ingredient are required for release testing of licensed biological drug products, comparability and stability analysis.

In certain conditions, such as MLD and ADA-SCID, the potency of a product candidate may be directly measured through enzymatic activity; however, for an intracellular protein such as WAS, developing an assay is more complex. We are therefore working with the FDA and EMA to develop appropriate approaches to assess the drug product potency of OTL-103 for the treatment of WAS, but COVID-19-related restrictions to laboratory access at our facilities and those of our third-party service providers have delayed and may continue to delay the timeline for such development. If an adequate potency assay for a product candidate, such as OTL-103, is not available, if COVID-19-related restrictions to laboratory access persist, or if the FDA, EMA or other regulatory authority require additional tests or recommend a different approach to support the potency of any of our product candidates, regulatory approval for any such product candidates will be delayed, and such regulators might request additional clinical data to support comparability analysis. Similarly, if one or more of these regulatory authorities does not accept that our drug product manufactured with HSCs derived from the patient's mobilized peripheral blood is comparable to drug product manufactured with HSCs derived from the patient's bone marrow, any regulatory approval would be limited to drug product manufactured with HSCs derived from the patient's bone marrow until we are able to provide the regulators with satisfactory comparability data, which may include data from additional clinical trials. In April 2020, the FDA advised us that we may need to generate additional data to demonstrate the comparability of our OTL-200 drug product derived from the patient's mobilized peripheral blood and the OTL-200 drug product derived from the patient's bone marrow, and that the data provided to date are inadequate to determine if the two materials are comparable. Further, the FDA requested that we provide data that demonstrates the comparability of the different OTL-200 product formulations used across our trials. Failure to demonstrate such comparability, or if we are required to conduct additional testing or additional clinical trials, potentially at additional sites, would delay any marketing authorization and adversely affect the commercial viability of our product candidates and may adversely affect our ability to generate revenue, as a result of which our business, prospects, financial condition and results of operations may suffer.

***Our focus on developing our current product candidates may not yield any commercially viable products, and our failure to successfully identify and develop additional product candidates could impair our ability to grow.***

As part of our strategy, we intend to identify, develop and market additional product candidates beyond our existing product candidates. We may spend several years completing our development of any particular current or future product candidates, and failure can occur at any stage. Even if we receive approval of a product candidate, we may not achieve commercial success for a variety of factors, including failure to achieve market acceptance in the medical community and the availability of third-party insurance coverage or reimbursement. For example, we received standard marketing authorization for Libmeldy in December 2020 from the European Commission and are preparing to launch the commercialization of Libmeldy in Europe, but there is no assurance that our commercialization efforts will be successful or that our pricing assumptions or our assumptions about the size of the anticipated patient population will prove to be accurate. The product candidates to which we allocate our resources may not end up being successful. Because we have limited resources, we may forego or delay pursuit of opportunities with certain programs or

product candidates or for indications that later prove to have greater commercial potential. For example, in May 2020, we announced our decision to reduce investment in the development of OTL-101 for ADA-SCID and OTL-300 for TDT and to focus on other product candidates in our pipeline and new research and development efforts in less rare diseases. In May 2021, we announced that we would terminate the license relating to OTL-101, and such termination has taken effect. Our focus on the advancement of our other product candidates may ultimately prove to be unsuccessful or less successful than if we had continued to prioritize OTL-101 or OTL-300, and if we choose to reprioritize OTL-300 in the future, we may experience delays that would not have otherwise occurred, due to inefficiencies from loss of organizational knowledge and ramp up costs. Our spending on current and future research and development programs may not yield any commercially viable product candidates. If we do not accurately evaluate the commercial potential for a particular product candidate, we may relinquish valuable rights to that product candidate through strategic collaborations, licensing or other arrangements in cases in which it would have been more advantageous for us to retain sole development and commercialization rights to such product candidate. If any of these events occur, we may be forced to abandon our development efforts with respect to a particular product candidate or fail to develop a potentially successful product candidate.

Because our internal research capabilities are limited, we may be dependent upon biotechnology companies, academic scientists and other researchers to sell or license product candidates, approved products or the underlying technology to us. The success of this strategy depends partly upon our ability to identify, select, discover and acquire promising product candidates and products.

In addition, certain of our current or future product candidates may not demonstrate in patients any or all of the pharmacological benefits we believe they may possess or compare favorably to existing, approved therapies, such as bone marrow transplantation or enzyme replacement therapy. We may never succeed in demonstrating efficacy and safety of our product candidates or any future product candidates in clinical trials or in obtaining marketing approval thereafter. Accordingly, our focus on treating rare diseases may not always result in the discovery and development of commercially viable products.

If we are unsuccessful in our development efforts, we may not be able to advance the development of our product candidates, commercialize products other than Strimvelis and Libmeldy, raise capital, expand our business or continue our operations.

***Interim data and ad hoc analyses are preliminary in nature. Success in preclinical studies or early clinical trials may not be indicative of results obtained in later trials.***

From time to time, we may publish interim data and/or ad hoc analyses from investigator-sponsored or company-sponsored clinical trials of our product candidates. Preliminary data and ad hoc analyses from these clinical trials may change as longer-term patient data become available. In general, we seek to conduct interim analyses at times we pre-specify with the applicable regulators prior to commencement of the trial, at which time we lock and reconcile the database. We may occasionally elect not to conduct subsequent interim analyses so as not to compromise the statistical analysis plan for the trial. Accordingly, our interim analyses do not include data subsequent to the cut-off date and may not be available until the next planned interim analysis. From time to time, preliminary data and ad hoc analyses might be presented, typically by academic investigators at scientific conferences or in scientific publications.

With respect to clinical trials conducted by our academic or other collaborators, such as University College London, UCLA, Telethon-OSR and GSK, we may not have access to the most recent clinical data or the clinical data available to us may otherwise be limited or incomplete. Interim data or ad hoc analyses from these clinical trials are not necessarily predictive of final results. Interim data or ad hoc analyses are subject to the risk that one or more of the clinical outcomes may materially change as patient enrollment continues and/or more patient data become available to us. Interim, topline and preliminary data and ad hoc analyses also remain subject to audit and verification procedures that may result in the final data being materially different from the preliminary data available to us or that we previously published. As a result, preliminary and interim data and ad hoc analyses should be viewed with caution until the final data are available. Material adverse changes in the final data compared to the preliminary or interim data or ad hoc analyses could significantly harm our business prospects.

Similarly, the results of preclinical studies and previous clinical trials should not be relied upon as evidence that our ongoing or future clinical trials will succeed. Trial designs and results from preclinical studies or previous clinical trials are not necessarily predictive of future clinical trial results or the ability to obtain marketing approval for our product candidates. Our product candidates may fail to show the desired safety and efficacy in clinical development despite demonstrating positive results in preclinical studies or having successfully advanced through initial clinical trials or preliminary stages of registrational clinical trials.

For example, although sustained clinical activity has been observed in clinical trials to date for Libmeldy (OTL-200) and OTL-103 for WAS, follow-up in each of these clinical trials is ongoing and there can be no assurance that the results, in each case as of the applicable primary endpoint measurement date, seen in clinical trials of any of our product candidates ultimately will result in success in clinical trials or provide adequate support for marketing approvals by the FDA in the case of Libmeldy and by the FDA or EMA in the case of OTL-103 without conducting further clinical trials. These data, or other positive data, may not continue or occur for these

patients or for any future patients in our ongoing or future clinical trials, and may not be repeated or observed in ongoing or future trials involving our product candidates. There is limited data concerning long-term safety and efficacy following treatment with our product candidates. For example, OTL-202 for mucopolysaccharidosis type III-B, or MPS-IIIB, has not yet been tested in humans. These and any of our other product candidates may fail to adequately demonstrate safety and efficacy in clinical development despite positive results in preclinical studies. Our product candidates may fail to show the desired safety and efficacy in later stages of clinical development despite having successfully advanced through initial clinical trials. There can be no assurance that any of these trials will ultimately be successful or support further clinical advancement or regulatory approval of our product candidates. In addition, there can be no assurance that we will be able to achieve the same or similar success in our preclinical studies and clinical trials of our other product candidates.

***Favorable results from compassionate use programs may not establish proof of concept, and the FDA or other regulatory authorities may not accept compassionate use data as sufficient clinical validation in support of our regulatory approval efforts.***

A number of patients have been administered our autologous *ex vivo* gene therapies through compassionate use programs. Compassionate use is a term that is used to refer to the use of an investigational drug outside of a clinical trial to treat a patient with a serious or immediately life-threatening disease or condition who has no comparable or satisfactory alternative treatment options. Regulators often allow compassionate use on a case-by-case basis for an individual patient or for defined groups of patients with similar treatment needs. Caution should be given when reviewing and interpreting compassionate use data. While results from treating patients through compassionate use have in certain cases been encouraging, we cannot be assured that the results observed in these cases will be observed in our ongoing or future clinical trials or that our ongoing and future clinical trials will ultimately be successful.

We plan to submit any data available to us from compassionate use cases as part of any regulatory submission for the applicable product candidate. However, because these patients were not treated as part of a clinical trial regulatory framework and related requirements, regulatory authorities may not accept compassionate use data as sufficiently robust clinical evidence in support of our regulatory approval efforts, or they may find that the data submitted from our clinical trials are insufficient to support approval. Such decisions could materially and adversely affect our business, financial condition, results of operations and prospects.

***We may find it difficult to enroll patients in our clinical trials, which could delay or prevent us from proceeding with clinical trials of our product candidates.***

Identifying and qualifying patients to participate in clinical trials of our product candidates is critical to our success. The timing of our clinical trials depends on our ability to recruit patients to participate as well as the completion of required follow-up periods. Patients may be unwilling to participate in our gene therapy clinical trials because of negative publicity from adverse events related to the biotechnology or gene therapy fields, competitive clinical trials for similar patient populations, clinical trials in product candidates employing our vectors, the existence of current treatments or for other reasons. Additionally, the COVID-19 global pandemic has had and may continue to have a sustained impact on our ability to recruit and follow-up with patients either due to continued or renewed restrictions on travel or shelter-in-place orders or policies, or due to changes in patient willingness to participate in trials or travel to study sites in the wake of the pandemic. Additionally, COVID-19 related study site policies may create delays or setbacks in our ability to continue to enroll or to dose patients. For example, the enrollment timeline for OTL-201 was initially delayed by three months, and we may face delays in the future due to the impacts of the COVID-19 pandemic. In addition, the indications that we are currently targeting and may in the future target are rare diseases, which may limit the pool of patients that may be enrolled in our ongoing or planned clinical trials. The timeline for recruiting patients, conducting trials and obtaining regulatory approval of our product candidates may be delayed, which could result in increased costs, delays in advancing our product candidates, delays in testing the effectiveness of our product candidates or termination of the clinical trials altogether.

We may not be able to identify, recruit and enroll a sufficient number of patients, or those with the required or desired characteristics, to complete our clinical trials in a timely manner. For example, due to the nature of the indications that we are initially targeting, patients with advanced disease progression may not be suitable candidates for treatment with our product candidates and may be ineligible for enrollment in our clinical trials. Therefore, early diagnosis in patients with our target diseases is critical to our success. Patient enrollment and trial completion is affected by factors including the:

- size of the patient population and process for identifying subjects;
- design of the trial protocol;
- eligibility and exclusion criteria;
- safety profile, to date, of the product candidate under study;
- perceived risks and benefits of the product candidate under study;
- perceived risks and benefits of gene therapy-based approaches to treatment of diseases, including any required pretreatment conditioning regimens;
- availability of competing therapies and clinical trials;

- severity of the disease under investigation;
- degree of progression of the subject's disease at the time of enrollment;
- availability of genetic testing for potential patients;
- proximity and availability of clinical trial sites for prospective subjects;
- the impact of the COVID-19 global pandemic or future pandemics or similar events on patients' willingness and ability to participate in clinical trials or on study site policies;
- ability to obtain and maintain subject consent;
- risk that enrolled subjects will drop out before completion of the trial;
- patient referral practices of physicians; and
- ability to monitor subjects adequately during and after treatment.

Our current product candidates are being developed to treat rare conditions. We plan to seek initial marketing approvals in the United States and the European Union. We may not be able to initiate or continue clinical trials if we cannot enroll a sufficient number of eligible patients to participate in the clinical trials required by the FDA or EMA. Our ability to successfully initiate, enroll and complete a clinical trial in any foreign country is subject to numerous risks unique to conducting business in foreign countries, including:

- difficulty in establishing or managing relationships with academic partners or contract research organizations, or CROs, and physicians;
- different standards for the conduct of clinical trials;
- the absence in some countries of established groups with sufficient regulatory expertise for review of gene therapy protocols;
- our inability to locate qualified local consultants, physicians and partners; and
- the potential burden of complying with a variety of foreign laws, medical standards and regulatory requirements, including the regulation of pharmaceutical and biotechnology products and treatment.

If we have difficulty enrolling a sufficient number of patients to conduct our clinical trials as planned, we may need to delay, limit or terminate ongoing or planned clinical trials, any of which would have an adverse effect on our business, financial condition, results of operations and prospects.

***We may encounter substantial delays in our clinical trials, or we may fail to demonstrate safety and efficacy to the satisfaction of applicable regulatory authorities.***

Before obtaining marketing approval from regulatory authorities for the sale of our product candidates, we must conduct extensive clinical trials to demonstrate the safety and efficacy of the product candidates in humans. Clinical testing is expensive, time-consuming and uncertain as to outcome. We cannot guarantee that any clinical trials will be conducted as planned or completed on schedule, if at all. As a result of the COVID-19 global pandemic, certain of our clinical sites have partially shifted and may continue to shift significant resources to patients with COVID-19, which extended the enrollment timeline of our OTL-201 clinical trial by three months and provided challenges for patient follow-up visits for all programs. A failure of one or more clinical trials can occur at any stage of testing. Events that may prevent successful or timely completion of clinical development include:

- delays in reaching a consensus with regulatory agencies on study design;
- delays in reaching agreement on acceptable terms with prospective CROs and clinical trial sites;
- delays in obtaining required Institutional Review Board, or IRB, approval at each clinical trial site;
- delays in recruiting suitable patients and in sufficient volume to participate in our clinical trials;
- imposition of a clinical hold by regulatory agencies;
- failure by our academic partners, CROs, other third parties or us to adhere to clinical trial protocol and recordkeeping requirements;
- failure to perform in accordance with the FDA's good clinical practices, or GCP, or applicable regulatory guidelines in other countries;
- delays in the testing, validation, manufacturing and delivery of our product candidates to the clinical sites;
- delays in having patients complete participation in a study or return for post-treatment follow-up;
- clinical trial sites or patients dropping out of a study;
- delays in patient enrollment, missed assessments resulting from remote follow-up visits, or delays in completion of participation as a result of the impact of the COVID-19 global pandemic or future pandemics or similar events;
- the occurrence of SAEs associated with the product candidate that are viewed to outweigh its potential benefits; or
- changes in regulatory requirements and guidance that require amending or submitting new clinical protocols.

Any inability to successfully complete preclinical and clinical development could result in additional costs to us or impair our ability to generate revenues. In addition, if we make changes to our product candidates, we may need to conduct additional studies to bridge our modified product candidates to earlier versions, which could delay our clinical development plan or marketing approval for our product candidates. Clinical trial delays could also shorten any periods during which we may have the exclusive right to commercialize our product candidates or allow our competitors to bring products to market before we do, which could impair our ability to successfully commercialize our product candidates and may harm our business and results of operations.

If the results of our clinical trials are inconclusive or if there are safety concerns or adverse events associated with our product candidates, we may:

- be delayed in obtaining marketing approval for our product candidates, if at all;
- obtain approval for indications or patient populations that are not as broad as intended or desired;
- obtain approval with, or later become subject to, labeling or a REMS (or equivalent requirement from a non-U.S. regulatory authority) that includes significant use or distribution restrictions or safety warnings, precautions, contraindications, drug interactions, or adverse events;
- be subject to changes with the way the product is administered;
- be required to perform additional clinical trials to support comparability or approval or be subject to additional post-marketing testing requirements;
- have regulatory authorities withdraw their approval of the product or impose restrictions on its distribution in the form of a REMS (or equivalent requirement from a non-U.S. regulatory authority);
- be sued by competitors, patent holders, patients, or third parties; or
- experience damage to our reputation.

Any of these events could prevent us from achieving or maintaining market acceptance of our product candidates and impair our ability to commercialize our products.

***We may elect to initiate a rolling BLA for our product candidates, in which case the FDA will not complete, and may delay initiating, its review of the BLA until we submit all of the required information.***

A rolling BLA is an application process that allows us to submit the information required by the BLA in sections. The FDA will not complete, and may delay initiating, its review of our BLA until we submit all of the required information for a full BLA. If we are delayed or unable to provide this required information it could delay or prevent our ability to obtain regulatory approvals, as a result of which our business, prospects, financial condition and results of operations may suffer.

***Even if we complete the necessary preclinical studies and clinical trials, we cannot predict when or if we will obtain regulatory approval to commercialize a product candidate, and the approval may be for a narrower indication than we seek.***

We cannot commercialize a product until the appropriate regulatory authorities have reviewed and approved such product candidate. Even if a product candidate demonstrates safety and efficacy in clinical trials, the regulatory agencies may not complete their review processes in a timely manner, or we may not be able to obtain regulatory approval. Many companies in the pharmaceutical and biotechnology industries have suffered significant setbacks in late-stage clinical trials even after achieving promising results in preclinical testing and earlier-stage clinical trials. Additional delays may result if an FDA Advisory Committee or other regulatory authority recommends non-approval or restrictions on approval. In addition, we may experience delays or rejections based upon additional government regulation from future legislation or administrative action or changes in regulatory agency policy during the period of product development, clinical trials and the review process.

As of May 26, 2021, the FDA noted it was continuing to ensure timely reviews of applications for medical products during the COVID-19 pandemic in line with its user fee performance goals and conducting mission critical domestic and foreign inspections to ensure compliance of manufacturing facilities with FDA quality standards. However, the FDA may not be able to maintain this pace and delays or setbacks are possible in the future, including where a pre-approval inspection or an inspection of clinical sites is required and, due to the ongoing COVID-19 pandemic and travel restrictions, the FDA is unable to complete such required inspection during the review period. In 2020 and 2021, a number of companies announced receipt of complete response letters due to the FDA's inability to complete required inspections for their applications. Regulatory authorities outside the U.S. may similarly experience delays in their regulatory activities due to the COVID-19 pandemic.

In addition, regulatory agencies may not approve the labeling claims that are necessary or desirable for the successful commercialization of our product candidates. For example, regulatory agencies may approve a product candidate for fewer or more limited indications than requested or may grant approval subject to the performance of post-marketing studies. Regulators may

approve a product candidate for a smaller patient population, drug formulation (such as drug product using HSCs derived from bone marrow as opposed to mobilized peripheral blood or vice versa) or manufacturing processes (such as fresh drug product as opposed to cryopreserved or use of different manufacturing facilities) than we are seeking. If we are delayed in obtaining or unable to obtain necessary regulatory approvals, or if we obtain more limited regulatory approvals than we expect, our business, prospects, financial condition and results of operations may suffer.

***Even if we complete the necessary preclinical studies and clinical trials, the marketing approval process is expensive, time-consuming and uncertain and may prevent us from obtaining approvals for the commercialization of some or all of our product candidates. If we or any future collaborators are not able to obtain, or if there are delays in obtaining, required regulatory approvals, we or they will not be able to commercialize our product candidates, and our ability to generate revenue will be materially impaired.***

Our product candidates and the activities associated with their development and commercialization, including their design, testing, manufacture, safety, efficacy, recordkeeping, labeling, storage, approval, advertising, promotion, sale and distribution, export and import, are subject to comprehensive regulation by the FDA and other regulatory agencies in the United States and by the EMA and comparable regulatory authorities in other countries. Failure to obtain marketing approval for a product candidate will prevent us from commercializing such product candidate. We have only limited experience in submitting and supporting the applications necessary to gain marketing approvals and expect to rely on third-party CROs to assist us in this process.

Securing marketing approval requires the submission of extensive preclinical and clinical data and supporting information to the various regulatory authorities for each therapeutic indication to establish the product candidate's safety and efficacy. Securing regulatory approval also requires the submission of extensive information about the product manufacturing process and controls up to and including inspection of manufacturing facilities by the relevant regulatory authority. Our product candidates may not be effective, may be only moderately effective or may prove to have undesirable or unintended side effects, toxicities or other characteristics that may preclude our obtaining marketing approval or prevent or limit commercial use.

The process of obtaining marketing approvals, both in the United States and abroad, is expensive (the submission fee in the United States can be more than \$2.0 million and may be higher in the future), may take many years if additional clinical trials are required, if approval is obtained at all, and can vary substantially based upon a variety of factors, including the type, complexity and novelty of the product candidates involved. Changes in marketing approval policies during the development period, changes in or the enactment of additional statutes or regulations, or changes in regulatory review for each submitted product application, may cause delays in the approval or rejection of an application. The FDA and comparable authorities in other countries have substantial discretion in the approval process and may refuse to accept any application or may decide that our data are insufficient for approval and require additional preclinical, clinical or other studies. In addition, varying interpretations of the data obtained from preclinical and clinical testing could delay, limit or prevent marketing approval of a drug candidate. Any marketing approval of our product candidates that we, or any future collaborators, ultimately obtain may be limited or subject to restrictions or post-approval commitments that render the approved product not commercially viable.

Accordingly, if we or any future collaborators experience delays in obtaining approval or if we or they fail to obtain approval of our product candidates, the commercial prospects for our product candidates may be harmed and our ability to generate revenues will be materially impaired.

***Even if we obtain and maintain approval for our product candidates in one jurisdiction, we may never obtain approval for our product candidates in other jurisdictions, which would limit our market opportunities and adversely affect our business.***

Approval of a product candidate in the United States by the FDA does not ensure approval of such product candidate by the EMA or other regulatory authorities in other countries or jurisdictions, and approval by the EMA or another regulatory authority does not ensure approval by regulatory authorities in other foreign countries or by the FDA. For example, though we received standard marketing authorization of Libmeldy (OTL-200) from the European Commission in December 2020, there is no guarantee that we will receive approval from the FDA. Sales of our product candidates outside of the United States will be subject to foreign regulatory requirements governing clinical trials and marketing approval. Even if the FDA grants marketing approval for a product candidate, comparable regulatory authorities of foreign countries also must approve the manufacturing and marketing of the product candidates in those countries. Approval procedures vary among jurisdictions and can involve requirements and administrative review periods different from, and more onerous than, those in the United States, including additional preclinical studies or clinical trials. In many countries outside the United States, a product candidate must be approved for reimbursement before it can be approved for sale in that country. In some cases, the price that we intend to charge for our products, if approved, is also subject to approval. We intend to submit an MAA to the EMA for approval of our product candidates in the European Union but obtaining such approval from the European Commission following the opinion of EMA is a lengthy and expensive process. Even if a product candidate is approved, the FDA or the European Commission may limit the indications for which the product may be marketed, require extensive warnings on

the product labeling or require expensive and time-consuming additional clinical trials or reporting as conditions of approval. Regulatory authorities in countries outside of the United States and the European Union also have requirements for approval of product candidates with which we must comply prior to marketing in those countries. Obtaining foreign regulatory approvals and compliance with foreign regulatory requirements could result in significant delays, difficulties and costs for us and could delay or prevent the introduction of our product candidates in certain countries.

Further, clinical trials conducted in one country may not be accepted by regulatory authorities in other countries. Also, regulatory approval for any of our product candidates may be withdrawn. If we fail to comply with the regulatory requirements, our target market will be reduced and our ability to realize the full market potential of our product candidates will be harmed and our business, financial condition, results of operations and prospects will be harmed.

Additionally, on June 23, 2016, the electorate in the United Kingdom voted in favor of leaving the European Union, commonly referred to as “Brexit.” On March 29, 2017, the country formally notified the European Union of its intention to withdraw pursuant to Article 50 of the Lisbon Treaty. The withdrawal of the United Kingdom from the European Union took effect on January 31, 2020 (the “Exit Day”), however there was an initial transition period during which European Union medicines legislation continued to apply in the United Kingdom. This transition period ended on December 31, 2020 but the United Kingdom and the European Union have signed a EU-UK Trade and Cooperation Agreement (the “TCA”), which was ratified in April 2021. Under the terms of the TCA, the European Union and Great Britain have separate regulatory regimes for pharmaceutical products, although there are some provisions for mutual recognition of standards, for example with regards to GMP. For instance, Great Britain will now no longer be covered by the centralized procedure for obtaining European Economic Area (the “EEA”)-wide marketing authorizations for medicinal products (under the Northern Irish Protocol, centralized marketing authorizations will continue to be recognized in Northern Ireland) and a separate process for authorization of medicinal products will be required, resulting in an authorization covering the United Kingdom or Great Britain only. Brexit could materially impact the regulatory regime with respect to the approval of our product candidates in the United Kingdom or the European Union. Any delay in obtaining, or an inability to obtain, any marketing approvals, as a result of Brexit or otherwise, would prevent us from commercializing our product candidates in the United Kingdom and/or the European Union and restrict our ability to generate revenue and achieve and sustain profitability. If any of these outcomes occur, we may be forced to restrict or delay efforts to seek regulatory approval in the United Kingdom and/or European Union for our product candidates, which could significantly and materially harm our business.

***Most of the clinical trials for our product candidates conducted to date were conducted at sites outside the United States, and the FDA may not accept data from trials conducted in such locations.***

To date, most of the clinical trials conducted on our product candidates have been conducted outside the United States. For example, we do not yet have an IND open in the United States for OTL-203 for MPS-IH or OTL-300 for TDT. Although the FDA may accept data from clinical trials conducted outside the United States, acceptance of these data is subject to conditions imposed by the FDA, as noted in the risk factor immediately above. For example, the clinical trial must be well designed and conducted and performed by qualified investigators in accordance with ethical principles. The trial population must also adequately represent the U.S. population, and the data must be applicable to the U.S. population and U.S. medical practice in ways that the FDA deems clinically meaningful. In addition, while these clinical trials are subject to the applicable local laws, FDA acceptance of the data will depend on its determination that the trials also complied with all applicable U.S. laws and regulations. If the FDA does not accept the data from any trial that we conduct outside the United States, due to study design or otherwise, it would likely result in the need for additional trials, which would be costly and time-consuming and would delay or permanently halt our development of the applicable product candidates. Further, without an IND open in the United States, we forego more frequent interactions and dialogue with FDA regarding the design and conduct of our trials as well as product comparability, which may delay or halt the development of our product candidates later in development should FDA later disagree with the design or conduct of our trials or product comparability approach.

In addition, in order to commence a clinical trial in the United States, we are required to seek FDA acceptance of an IND for each of our product candidates. We cannot be sure any IND we submit to the FDA, or any similar CTA we submit in other countries, will be accepted. We may also be required to conduct additional preclinical testing prior to submitting an IND for any of our product candidates, and the results of any such testing may not be positive. Consequently, we may be unable to successfully and efficiently execute and complete necessary clinical trials in a way that leads to a BLA submission and approval of our product candidates. We may require more time and incur greater costs than our competitors and may not succeed in obtaining regulatory approvals of product candidates that we develop. Failure to commence or complete, or delays in, our planned clinical trials, could prevent us from or delay us in commercializing our product candidates.

***While we intend to seek designations for our product candidates with the FDA and comparable other regulatory authorities that are intended to confer benefits such as a faster development process or an accelerated regulatory pathway, there can be no***



*assurance that we will successfully obtain such designations. In addition, even if one or more of our product candidates are granted such designations, we may not be able to realize the intended benefits of such designations.*

The FDA and comparable other regulatory authorities offer certain designations for product candidates that are designed to encourage the research and development of product candidates that are intended to address conditions with significant unmet medical need. These designations may confer benefits such as additional interaction with regulatory authorities, a potentially accelerated regulatory pathway and priority review. OTL-200 for MLD and OTL-103 for WAS received RMAT designation from the FDA, and both OTL-300 for TDT and OTL-203 for MPS-IH received a Priority Medicines, or PRIME, designation from EMA. Despite these designations, there can be no assurance that we will successfully obtain these or other designations for any of our other product candidates. In addition, while such designations could expedite the development or review process, they generally do not change the standards for approval. Even if we obtain such designations for one or more of our product candidates, there can be no assurance that we will realize their intended benefits.

For example, we may seek a Breakthrough Therapy designation for some of our other product candidates. A breakthrough therapy is defined as a therapy that is intended, alone or in combination with one or more other therapies, to treat a serious or life-threatening disease or condition, and preliminary clinical evidence indicates that the therapy may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. For therapies that have been designated as breakthrough therapies, interaction and communication between the FDA and the sponsor of the trial can help to identify the most efficient path for clinical development while minimizing the number of patients placed in ineffective control regimens. Therapies designated as breakthrough therapies by the FDA are also eligible for accelerated approval. Designation as a breakthrough therapy is within the discretion of the FDA. Accordingly, even if we believe one of our product candidates meets the criteria for designation as a breakthrough therapy, the FDA may disagree and instead determine not to make such designation. In any event, the receipt of a Breakthrough Therapy designation for a product candidate may not result in a faster development process, review or approval compared to therapies considered for approval under conventional FDA procedures and does not assure ultimate approval by the FDA. In addition, even if one or more of our product candidates qualify as breakthrough therapies, the FDA may later decide that such product candidates no longer meet the conditions for qualification.

In addition, we may seek RMAT designation for some of our other product candidates. An RMAT is defined as cell therapies, therapeutic tissue engineering products, human cell and tissue products, and combination products using any such therapies or products. Gene therapies, including genetically modified cells that lead to a durable modification of cells or tissues may meet the definition of a regenerative medicine therapy. The RMAT program is intended to facilitate efficient development and expedite review of RMATs, which are intended to treat, modify, reverse, or cure a serious or life-threatening disease or condition and for which preliminary clinical evidence indicates that the drug has the potential to address unmet medical needs for such disease or condition. A BLA for an RMAT may be eligible for priority review or accelerated approval. An RMAT may be eligible for priority review if it treats a serious condition, and, if approved, would provide a significant improvement in the safety or effectiveness of the treatment of the condition. An RMAT may be eligible for accelerated approval through (1) surrogate or intermediate endpoints reasonably likely to predict long-term clinical benefit or (2) reliance upon data obtained from a meaningful number of sites. Benefits of such designation also include early interactions with FDA to discuss any potential surrogate or intermediate endpoint to be used to support accelerated approval. A regenerative medicine therapy that is granted accelerated approval and is subject to post-approval requirements may fulfill such requirements through the submission of clinical evidence, clinical trials, patient registries, or other sources of real-world evidence, such as electronic health records, the collection of larger confirmatory data sets, or post-approval monitoring of all patients treated with such therapy prior to its approval. RMAT designation is within the discretion of the FDA. Accordingly, even if we believe one of our product candidates meets the criteria for designation as a RMAT, the FDA may disagree and instead determine not to make such designation. In any event, the receipt of RMAT designation for a product candidate may not result in a faster development process, review or approval compared to drugs considered for approval under conventional FDA procedures and does not assure ultimate approval by the FDA. In addition, even if one or more of our product candidates qualify as for RMAT designation, the FDA may later decide that the biological products no longer meet the conditions for qualification.

In addition, the FDA has granted Rare Pediatric Disease designation to Strimvelis, OTL-200 for MLD, OTL-103 for WAS, OTL-201 for MPS-III and OTL-203 for MPS-IH, and we may seek Rare Pediatric Disease designation for some of our other product candidates. The FDA defines a “rare pediatric disease” as a serious or life-threatening disease in which the serious or life-threatening manifestations primarily affect individuals aged from birth to 18 years and the disease affects fewer than 200,000 individuals in the U.S. or affects more than 200,000 in the U.S. and for which there is no reasonable expectation that the cost of developing and making in the U.S. a drug for such disease or condition will be recovered from sales in the U.S. of such drug. Under the FDA’s Rare Pediatric Disease Priority Review Voucher, or PRV, program, upon the approval of a BLA for the treatment of a rare pediatric disease, the sponsor of such application would be eligible for a Rare Pediatric Disease PRV that can be used to obtain priority review for a subsequent new drug application or BLA. The PRV may be sold or transferred an unlimited number of times. Congress has extended the PRV program through September 30, 2024, with potential for PRVs to be granted through September 30, 2026. This program has been subject to criticism, including by the FDA, and it is possible that even if we obtain approval for Libmeldy (OTL-200), OTL-103

for WAS, OTL-201 for MPS-III A and OTL-203 for MPS-IH and qualify for such a PRV, the program may no longer be in effect at the time or the value of any such PRV may decrease such that we are may not be able to realize the benefits of such PRV.

In addition, we may seek Fast Track Designation for some of our product candidates. If a therapy is intended for the treatment of a serious or life-threatening condition and the therapy demonstrates the potential to address unmet medical needs for this condition, the therapy sponsor may apply for Fast Track Designation. The FDA has broad discretion whether or not to grant this designation, so even if we believe a particular product candidate is eligible for this designation, there can be no assurance that the FDA would decide to grant it. Even if we do receive Fast Track Designation, we may not experience a faster development process, review or approval compared to conventional FDA procedures, and receiving a Fast Track Designation does not provide assurance of ultimate FDA approval. In addition, the FDA may withdraw Fast Track Designation if it believes that the designation is no longer supported by data from our clinical development program.

***We may seek priority review designation for one or more of our product candidates, but we might not receive such designation, and even if we do, such designation may not lead to a faster regulatory review or approval process.***

If the FDA determines that a product candidate offers a treatment for a serious condition and, if approved, the product would provide a significant improvement in safety or effectiveness, the FDA may designate the product candidate for priority review. A priority review designation means that the goal for the FDA to review an application is six months, rather than the standard review period of ten months. We may request priority review for our product candidates. The FDA has broad discretion with respect to whether or not to grant priority review status to a product candidate, so even if we believe a particular product candidate is eligible for such designation or status, in particular if such product candidate has received a Breakthrough Therapy designation or RMAT designation, the FDA may decide not to grant it. Moreover, a priority review designation does not result in expedited development and does not necessarily result in expedited regulatory review or approval process or necessarily confer any advantage with respect to approval compared to conventional FDA procedures. Receiving priority review from the FDA does not guarantee approval within the six-month review cycle or at all.

Under the terms of the GSK Agreement, we are required to use commercially reasonable efforts to obtain a PRV from the FDA for each of Libmeldy, OTL-103 for WAS and OTL-300 for TDT and to transfer the first such PRV to GSK. GSK also has an option to acquire at a defined price any PRV granted to us thereafter for Libmeldy, OTL-103 for WAS and OTL-300 for TDT. In the event that GSK does not exercise this option with respect to any PRV, we may sell the PRV to a third party and must share any proceeds in excess of a specified sale price equally with GSK.

***We have sought and received orphan drug designation for Libmeldy (OTL-200), OTL-103 for WAS, OTL-102 for X-CGD and OTL-201 for MPS-III A from the FDA and EMA, for OTL-203 for MPS-IH from the FDA, and for OTL-300 for TDT from the EMA, but we may be unable to obtain orphan drug designation for our other product candidates, and, even if we obtain such designation, we may not be able to realize the benefits of such designation, including potential marketing exclusivity of our product candidates, if approved.***

Regulatory authorities in some jurisdictions, including the United States and other major markets, may designate drugs intended to treat conditions or diseases affecting relatively small patient populations as orphan drugs. Under the Orphan Drug Act of 1983, the FDA may designate a product candidate as an orphan drug if it is intended to treat a rare disease or condition, which is generally defined as having a patient population of fewer than 200,000 individuals in the United States, or a patient population greater than 200,000 in the United States where there is no reasonable expectation that the cost of developing the drug will be recovered from sales in the United States. In the EEA, EMA's Committee for Orphan Medicinal Products grants orphan drug designation to promote the development of products that are intended for the diagnosis, prevention or treatment of a life-threatening or chronically debilitating condition affecting not more than 5 in 10,000 persons in the EEA. Additionally, orphan designation is granted for products intended for the diagnosis, prevention or treatment of a life-threatening, seriously debilitating or serious and chronic condition and when, without incentives, it is unlikely that sales of the drug in the EEA would be sufficient to justify the necessary investment in developing the drug or biologic product. In either case, the applicant for orphan designation must also demonstrate that no satisfactory method of diagnosis, prevention, or treatment for the condition has been authorized (or, if a method exists, the new product would be a significant benefit to those affected compared to the product available).

We have sought and received orphan drug designation for Libmeldy, OTL-103 for WAS, OTL-102 for X-CGD and OTL-201 for MPS-III A from the FDA and EMA, for OTL-203 for MPS-IH from the FDA, and for OTL-300 for TDT from the EMA. If we request orphan drug designation for any of our other product candidates, there can be no assurances that the FDA or EMA will grant any of our other product candidates such designation. Additionally, the designation of any of our product candidates as an orphan product does not mean that any regulatory agency will accelerate regulatory review of, or ultimately approve, that product candidate, nor does it limit the ability of any regulatory agency to grant orphan drug designation to product candidates of other companies that treat the same indications as our product candidates prior to our product candidates receiving exclusive marketing approval.

Generally, if a product candidate with an orphan drug designation receives the first marketing approval for the indication for which it has such designation, the product is entitled to a period of marketing exclusivity, which precludes the FDA or EMA from approving another marketing application for a product that constitutes the same drug treating the same indication for that marketing exclusivity period, except in limited circumstances. If another sponsor receives such approval before we do (regardless of our orphan drug designation), we will be precluded from receiving marketing approval for our product for the applicable exclusivity period. The applicable period is seven years in the United States and 10 years in the EEA. The exclusivity period in the EEA can be reduced to six years if a product no longer meets the criteria for orphan drug designation or if the product is sufficiently profitable so that market exclusivity is no longer justified. Orphan drug exclusivity may be revoked if any regulatory agency determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the product to meet the needs of patients with the rare disease or condition.

Even if we obtain orphan drug exclusivity for a product candidate, that exclusivity may not effectively protect the product candidate from competition because different drugs can be approved for the same condition. In the United States, even after an orphan drug is approved, the FDA may subsequently approve another drug for the same condition if the FDA concludes that the latter drug is not the same drug or is clinically superior in that it is shown to be safer, more effective or makes a major contribution to patient care. In the EEA, marketing authorization may be granted to a similar medicinal product for the same orphan indication if:

- the second applicant can establish in its application that its medicinal product, although similar to the orphan medicinal product already authorized, is safer, more effective or otherwise clinically superior;
- the holder of the marketing authorization for the original orphan medicinal product consents to a second orphan medicinal product application; or
- the holder of the marketing authorization for the original orphan medicinal product cannot supply sufficient quantities of orphan medicinal product.

***We may seek a conditional marketing authorization in Europe for some or all of our current product candidates, but we may not be able to obtain or maintain such designation.***

As part of its marketing authorization process, the EMA may grant marketing authorizations for certain categories of medicinal products on the basis of less complete data than is normally required, where the benefit of immediate availability of the medicine outweighs the risk inherent in the fact that additional data are still required or in the interests of public health. In such cases, it is possible for the CHMP to recommend the granting of a marketing authorization, subject to certain specific obligations to be reviewed annually, which is referred to as a conditional marketing authorization. This may apply to medicinal products for human use that fall under the jurisdiction of the EMA, including those that aim at the treatment, the prevention, or the medical diagnosis of seriously debilitating or life-threatening diseases and those designated as orphan medicinal products.

A conditional marketing authorization may be granted when the CHMP finds that, although comprehensive clinical data referring to the safety and efficacy of the medicinal product have not been supplied, all the following requirements are met:

- the risk-benefit balance of the medicinal product is positive;
- it is likely that the applicant will be in a position to provide the comprehensive clinical data post-authorization;
- unmet medical needs will be fulfilled; and
- the benefit to public health of the immediate availability on the market of the medicinal product concerned outweighs the risk inherent in the fact that additional data is still required.

The granting of a conditional marketing authorization is restricted to situations in which only the clinical part of the application is not yet fully complete. Incomplete preclinical or quality data may only be accepted if duly justified and only in the case of a product intended to be used in emergency situations in response to public health threats. Conditional marketing authorizations are valid for one year, on a renewable basis. The holder will be required to complete ongoing trials or to conduct new trials with a view to confirming that the benefit-risk balance is positive. In addition, specific obligations may be imposed in relation to the collection of pharmacovigilance data.

Granting a conditional marketing authorization allows medicines to reach patients with unmet medical needs earlier than might otherwise be the case and will ensure that additional data on a product is generated, submitted, assessed and acted upon. Although we may seek a conditional marketing authorization for one or more of our product candidates by the EMA, the CHMP may ultimately not agree that the requirements for such conditional marketing authorization have been satisfied and hence delay the commercialization of our product candidates.

***Even if we obtain regulatory approval for a product candidate, our products will remain subject to regulatory oversight.***

Libmeldy, Strimvelis and any of our product candidates for which we obtain regulatory approval will be subject to ongoing regulatory requirements for manufacturing, labeling, packaging, storage, advertising, promotion, sampling, record-keeping and submission of safety and other post-market information. For example, as a post-marketing commitment, we are continuing to follow patients in the OTL-200 clinical development program for up to 15 years, and data will be presented to regulators at agreed points in order to further characterize the long-term efficacy and safety of Libmeldy, particularly in the early symptomatic early juvenile population. For an example of adverse event reporting, in October 2020 we notified the EMA and relevant local European regulatory authorities after we became aware that a patient treated with Strimvelis under a compassionate use program in 2016 had been diagnosed with leukemia.

Any regulatory approvals that we receive for our product candidates also may be subject to a REMS or equivalent requirement from a non-U.S. regulatory authority, limitations on the approved indicated uses for which the product may be marketed or to the conditions of approval, or contain requirements for potentially costly post-marketing testing, including Phase 4 clinical trials, and surveillance to monitor the quality, safety and efficacy of the product. For example, in the United States, the holder of an approved BLA is obligated to monitor and report adverse events and any failure of a product to meet the specifications in the BLA. FDA guidance advises that patients treated with some types of gene therapy undergo long-term safety and efficacy follow-up for as long as 15 years post therapy. The holder of an approved BLA must also submit new or supplemental applications and obtain FDA approval for certain changes to the approved product, product labeling or manufacturing process. Advertising and promotional materials must comply with FDA rules and are subject to FDA review, in addition to other potentially applicable federal and state laws.

In the European Union, the advertising and promotion of our products are subject to European Union laws governing promotion of medicinal products, interactions with physicians, misleading and comparative advertising and unfair commercial practices. In addition, other legislation adopted by individual European Union Member States may apply to the advertising and promotion of medicinal products. These laws require that promotional materials and advertising for medicinal products are consistent with the product's Summary of Product Characteristics, or SmPC, as approved by the competent authorities. The SmPC is the document that provides information to physicians concerning the safe and effective use of the medicinal product. It forms an intrinsic and integral part of the marketing authorization granted for the medicinal product. Promotion of a medicinal product that does not comply with the SmPC is considered to constitute off-label promotion. The off-label promotion of medicinal products is prohibited in the European Union. The applicable laws at European Union level and in the individual European Union Member States also prohibit the direct-to-consumer advertising of prescription-only medicinal products. Violations of the rules governing the promotion of medicinal products in the European Union could be penalized by administrative measures, fines and imprisonment. These laws may further limit or restrict the advertising and promotion of our products to the general public and may also impose limitations on our promotional activities with health care professionals.

In addition, product manufacturers and their facilities are subject to payment of user fees and continual review and periodic inspections by the FDA and other regulatory authorities for compliance cGMP requirements and adherence to commitments made in the BLA or foreign marketing application. If we, or a regulatory authority, discover previously unknown problems with a product, such as adverse events of unanticipated severity or frequency, or problems with the facility where the product is manufactured or disagrees with the promotion, marketing or labeling of that product, a regulatory authority may impose restrictions relative to that product, the manufacturing facility or us, including requiring recall or withdrawal of the product from the market or suspension of manufacturing.

If we fail to comply with applicable regulatory requirements following approval of any of our product candidates, a regulatory authority may:

- issue a warning letter asserting that we are in violation of the law;
- seek an injunction or impose administrative, civil or criminal penalties or monetary fines;
- suspend or withdraw regulatory approval;
- suspend any ongoing clinical trials;
- refuse to approve a pending BLA or comparable foreign marketing application (or any supplements thereto) submitted by us or our strategic partners;
- restrict the marketing or manufacturing of the product;
- seize or detain the product or otherwise require the withdrawal of the product from the market;
- refuse to permit the import or export of products; or
- refuse to allow us to enter into supply contracts, including government contracts.

Any government investigation of alleged violations of law could require us to expend significant time and resources in response and could generate negative publicity. The occurrence of any event or penalty described above may inhibit our ability to commercialize our product candidates and adversely affect our business, financial condition, results of operations and prospects.

In addition, the FDA's policies, and those of the EMA and other regulatory authorities, may change and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our product candidates. We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative action, either in the United States or abroad. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained and we may not achieve or sustain profitability, which would materially and adversely affect our business, financial condition, results of operations and prospects.

Both marketing authorization holders and manufacturers of medicinal products are subject to comprehensive regulatory oversight by the EMA and the competent authorities of the individual European Union Member States both before and after grant of the manufacturing and marketing authorizations. This includes compliance with cGMP rules, which govern quality control of the manufacturing process and require documentation policies and procedures. We and our third-party manufacturers would be required to ensure that all of our processes, quality systems, methods, and equipment are compliant with cGMP. Failure by us or by any of our third-party partners, including suppliers, manufacturers, and distributors to comply with European Union laws and the related national laws of individual European Union Member States governing the conduct of clinical trials, manufacturing approval, marketing authorization of medicinal products, both before and after grant of marketing authorization, and marketing of such products following grant of authorization may result in administrative, civil, or criminal penalties. These penalties could include delays in or refusal to authorize the conduct of clinical trials or to grant marketing authorization, product withdrawals and recalls, product seizures, suspension, or variation of the marketing authorization, total or partial suspension of production, distribution, manufacturing, or clinical trials, operating restrictions, injunctions, suspension of licenses, fines, and criminal penalties.

In addition, European Union legislation related to pharmacovigilance, or the assessment and monitoring of the safety of medicinal products, provides that EMA and the competent authorities of the European Union Member States have the authority to require companies to conduct additional post-approval clinical efficacy and safety studies. The legislation also governs the obligations of marketing authorization holders with respect to additional monitoring, adverse event management and reporting. Under the pharmacovigilance legislation and its related regulations and guidelines, we may be required to conduct a burdensome collection of data regarding the risks and benefits of marketed products and may be required to engage in ongoing assessments of those risks and benefits, including the possible requirement to conduct additional clinical trials, which may be time-consuming and expensive and could impact our profitability. Non-compliance with such obligations can lead to the variation, suspension or withdrawal of marketing authorization or imposition of financial penalties or other enforcement measures.

#### **Risks related to manufacturing and supply**

***Gene therapies are novel, complex and difficult to manufacture. We have limited manufacturing experience, and we rely on third party manufacturers that are often our single source of supply. We could experience manufacturing problems that result in delays in the development or commercialization of our commercial products or our product candidates or otherwise harm our business.***

Biological products are inherently difficult to manufacture, and gene therapy products are complex biological products, the development and manufacture of which necessitates substantial expertise and capital investment. Libmeldy, Strimvelis and our product candidates are individually manufactured for each patient using complex processes in specialized facilities. Our production process requires a variety of raw materials, some of which are highly specialized, including the viral vector that encodes for the functional copy of the missing or faulty gene to treat a specific disease. Some of these raw materials have limited and, in some cases, sole suppliers. Even though we plan to have back-up supplies of raw materials whenever possible, we cannot be certain such supplies will be sufficient if our primary sources are unavailable. A shortage of a critical raw material or a technical issue during manufacturing may lead to delays in clinical development or commercialization of our product candidates. Additionally, each manufacturing batch must meet certain analytical specifications to be released and production difficulties caused by unforeseen events may delay the availability of one or more of the necessary raw materials or delay the manufacture of our product candidates for use in clinical trials or for commercial supply. As a result of the COVID-19 global pandemic, some of our CDMOs have experienced, and may continue to experience, delays and other direct impacts at their manufacturing sites as a result of travel restrictions, shelter-in-place policies or restrictions and other disruptions caused by the pandemic.

We have contracted with third party CDMOs for the manufacture of our viral vectors and drug product. We expect these CDMOs will be capable of providing sufficient quantities of our viral vectors and gene therapy products to meet the anticipated scale of our clinical trials and current and initial commercial demands, if any additional products are approved. However, to meet our

projected needs for further commercial manufacturing and clinical trials of new product candidates, third parties with whom we currently work might need to increase their scale and frequency of production or we will need to secure alternate suppliers or develop in-house capabilities. We believe that there are alternate sources of supply that can satisfy our clinical and commercial requirements; however, identifying and establishing relationships with such sources, if necessary, could result in significant delays or material additional costs, which could delay or prevent the development of our product candidates and would have a negative impact on our business, financial condition and results of operations.

Additionally, the manufacturers of pharmaceutical products must comply with strictly enforced cGMP requirements, state and federal regulations, as well as foreign requirements when applicable. Any failure of our CDMOs to adhere to or document compliance to such regulatory requirements could lead to a delay or interruption in the availability of our program materials for clinical trials. If our manufacturers were to fail to comply with the FDA, EMA, or other regulatory authority, it could result in sanctions being imposed on us, including clinical holds, fines, injunctions, civil penalties, delays, suspension or withdrawal of approvals, license revocation, seizures or recalls of raw materials, product candidates or products, operating restrictions and criminal prosecutions, any of which could significantly and adversely affect supplies of our product candidates. Our dependence upon others for the manufacture of our gene therapies may also adversely affect our future profit margins and our ability to commercialize any product candidates that receive regulatory approval on a timely and competitive basis.

***Delays in obtaining regulatory approval of our or our CDMOs' manufacturing process and facility or disruptions in our manufacturing process may delay or disrupt our commercialization efforts. Until recently, no cGMP gene therapy manufacturing facility in the United States had received approval from the FDA for the manufacture of an approved gene therapy product.***

Before we can begin to commercially manufacture our viral vector or product candidates in a CDMO facility, we must obtain regulatory approval from the FDA for our manufacturing processes and for the facility in which manufacturing is performed. A manufacturing authorization must also be obtained from the appropriate European Union regulatory authorities. Until recently, no cGMP gene therapy manufacturing facility in the United States had received approval from the FDA for the manufacture of an approved gene therapy product; therefore, the timeframe required for us to obtain such approval is uncertain. In addition, we must pass a pre-approval inspection of our CDMOs manufacturing facility by the FDA and other relevant regulatory authorities before any of our gene therapy product candidates can obtain marketing approval.

Since March 2020, when foreign and domestic inspections were largely placed on hold, the FDA has been working to resume routine surveillance, bioresearch monitoring and pre-approval inspections on a prioritized basis. The FDA has developed a rating system to assist in determining when and where it is safest to conduct prioritized domestic inspections and resumed inspections in China and India in early 2021. As of May 2021, certain inspections, such as foreign pre-approval, surveillance, and for-cause inspections that are not deemed mission-critical, remain temporarily postponed. In April 2021, the FDA issued guidance formally announcing plans to employ remote interactive evaluations, using risk management methods, to meet user fee commitments and goal dates. In May 2021, the FDA announced plans to continue progress toward resuming standard operational levels. Should the FDA determine that a manufacturing or bioresearch monitoring inspection is necessary for approval and an inspection cannot be completed during the review cycle due to restrictions on travel, and the FDA does not determine a remote interactive evaluation to be adequate, the agency has stated that it generally intends to issue a complete response letter or defer action on the application until an inspection can be completed. In 2020 and 2021, a number of companies announced receipt of complete response letters due to the FDA's inability to complete required inspections for their applications. Regulatory authorities outside the U.S. may adopt similar restrictions or other policy measures in response to the COVID-19 pandemic and may experience delays in their regulatory activities.

In order to obtain approval, we will need to ensure that all of our processes, quality systems, methods, equipment, policies and procedures are compliant with cGMP, and perform extensive audits of vendors, contract laboratories, CDMOs and suppliers. If any of our vendors, contract laboratories, CDMOs or suppliers is found to be out of compliance with cGMP, we may experience delays or disruptions in manufacturing while we work with these third parties to remedy the violation or while we work to identify suitable replacement vendors. The cGMP requirements govern quality control of the manufacturing process and documentation policies and procedures. In complying with cGMP, we will be obligated to spend time, money and effort in production, record keeping and quality control to assure that the product meets applicable specifications and other requirements. If we fail to comply with these requirements, we would be subject to possible regulatory action and may not be permitted to sell any products that we may develop.

Any problems in our manufacturing process or facilities could make us a less attractive collaborator for potential partners, including larger pharmaceutical companies and academic research institutions, which could limit our access to additional attractive development programs.

***We do not have experience as a company managing a complex supply chain or satisfying manufacturing-related regulatory requirements.***

The FDA, EMA and other foreign regulatory authorities may require us to submit samples of any lot of any approved product together with the protocols showing the results of applicable tests at any time. Under some circumstances, the FDA, EMA or other foreign regulatory authorities may require that we not distribute a product lot until the relevant agency authorizes its release. Slight deviations in the manufacturing process, including those affecting quality attributes and stability, may result in unacceptable changes in a viral vector or a gene therapy product that could result in lot failures or product recalls. Lot failures or product recalls could cause us to delay product launches or clinical trials, which could be costly to us and otherwise harm our business, financial condition, results of operations and prospects. Problems in our manufacturing processes could restrict our ability to meet market demand for our products.

***Managing an autologous ex vivo gene therapy supply chain is highly complex. We must identify, engage, and coordinate with treatment centers where patients' cellular source material must be collected, prepared, stored and transported to the manufacturing facility and the cryopreserved drug product must be returned to the treatment center for administration into the patient using controlled temperature shipping containers.***

Once collected from the patient, the cellular source material must be prepared and stored according to specified procedures. While we intend to standardize the processes at treatment centers, if there is a deviation of the processes, the cellular source material from a patient could be adversely impacted and potentially result in manufacturing failures. The patient's cellular materials must be transported to the manufacturing facility using a shipping container that maintains the material at a cool temperature and must typically be delivered and processed within three days of collection. While we intend to use reputable couriers and agents for the transport of such materials, if the shipping container is opened or damaged such that the cool temperature is not maintained, the cellular source material may be adversely impacted and it may not be feasible to manufacture a drug product for the patient. Similarly, if a shipment is delayed due to adverse weather, misrouting, being held up at a customs point, COVID-19 impacts or other events, the cellular source material may not be delivered within a time window that will allow for its use for the successful manufacture of a drug product.

Similarly, the patient's autologous drug product must be returned to the clinical site for administration into the patient using a specialized shipping container that maintains the material at a very low temperature for a period of typically up to ten days. While we intend to use reputable couriers and agents for the transport of our drug products, if the shipping container is opened or damaged such that the very low temperature is not maintained, the drug product may be adversely impacted and it may not be feasible to administer it to the patient or, if administered, it could cause harm to the patient. Similarly, if a shipment is delayed due to adverse weather, misrouting, being held up at a customs point, COVID-19 impacts or other events, and is not delivered to the clinical site within the time period that the very low temperature is maintained, the drug product may be adversely affected and be unable to be administered or, if administered, could cause harm to the patient.

We may be delayed or unable to identify, engage, successfully coordinate or qualify with treatment centers in the regions we are targeting as part of our commercial launch strategy, which could delay or prevent patients from receiving gene therapy treatments, if approved. For example, due to COVID-19-related travel restrictions, some in-person visits to qualify certain potential treatment centers were postponed or required to take place remotely. If our treatment centers fail to perform satisfactorily, we may suffer reputational, operational, and business harm.

Any of the above events, should they happen, could adversely affect our development timelines and our business, financial condition, results of operations and prospects.

***Our gene therapies are for autologous use only. Therefore, if a drug product is administered to the wrong patient, the patient could suffer harm.***

Our gene therapies are autologous, so they must be administered back only to the patient from which the cellular source material was collected. While we implement specific identifiers, lot numbers and labels with cross checks for our products and operations from collection of cellular source material, through manufacture of drug product, transport of product to the clinical site up to thawing and administration of the product, it is possible that a product may be administered into the wrong patient. If an autologous gene therapies were to be administered into the wrong patient, the patient could suffer harm, including experiencing a severe adverse immune reaction and this event, should it happen, could adversely affect our business, financial condition, results of operations and prospects.

***Any microbial contamination in the manufacturing process for our viral vectors or drug product, shortages of raw materials or failure of any of our key suppliers to deliver necessary components could result in delays in our clinical development or marketing schedules.***

Given the nature of biologics manufacturing, there is a risk of microbial contamination. Any microbial contamination could adversely affect our ability to produce, release or administer our gene therapies on schedule and could, therefore, harm our results of operations and cause reputational damage. Additionally, although our gene therapies are tested for microbial contamination prior to release, if a contaminated product was administered to a patient, it could result in harm to the patient.

Some of the raw materials required in our manufacturing processes are derived from biologic sources. Such raw materials are difficult to procure and may be subject to contamination or recall. A material shortage, contamination, recall or restriction on the use of biologically derived substances in the manufacture of our vectors or drug product could adversely impact or disrupt the commercial manufacturing or the production of clinical material, which could adversely affect our development timelines and our business, financial condition, results of operations and prospects.

***Interruptions in the supply of viral vectors and/or drug products or inventory loss may harm our operating results and financial condition.***

Our viral vectors and drug products are manufactured using technically complex processes in specialized facilities, sometimes using specialized equipment with highly specific raw materials and other production constraints. The complexity of these processes, as well as strict government standards for the manufacture and storage of our gene therapies, subjects us to manufacturing risks. While viral vectors and drug product released for use in clinical trials or for commercialization undergo sample testing, some defects may only be identified following their release. In addition, process deviations or unanticipated effects of approved process changes may result in viral vector and/or drug product not complying with stability requirements or specifications. Our viral vectors and drug product must be stored and transported at temperatures within a certain range. If these environmental conditions deviate, our viral vectors and drug products' remaining shelf-lives could be impaired or their efficacy and safety could be negatively impacted, making them no longer suitable for use. For example, patients' cellular material must be received by the manufacturing facility typically within three days after collection, and our gene therapy must be received by the clinical site typically within ten days after shipping from the manufacturing facility. The occurrence, or suspected occurrence, of manufacturing and distribution difficulties can lead to lost inventories and, in some cases, product recalls, with consequential reputational damage and the risk of product liability. The investigation and remediation of any identified problems can cause production delays, substantial expense, lost sales and delays of new product launches. Any interruption in the supply of finished products, due to transportation or other delays, including delays or disruptions resulting from the impact of the COVID-19 pandemic, or the loss thereof could hinder our ability to timely distribute our products and satisfy customer demand. Any unforeseen failure in the storage of the viral vectors or drug products or loss in supply could delay our clinical trials and result in a loss of our market share for our commercial products or our product candidates, if approved, and negatively affect our business, financial condition, results of operations and prospects.

***Our cryopreserved product candidates require specific storage, handling and administration at the clinical sites.***

Our cryopreserved product candidates must be stored at very low temperatures in specialized freezers or specialized shipping containers until immediately prior to use. For administration, the cryopreserved drug product container must be carefully removed from storage, and rapidly thawed under controlled temperature conditions in an area proximal to the patient's bedside and administered into the patient. The handling, thawing and administration of the cryopreserved gene therapy product must be performed according to specific instructions, typically using specific disposables and in some steps within specific time periods. Failure to correctly handle the product, follow the instructions for thawing and administration and or failure to administer the product within the specified period post-thaw could negatively impact the efficacy and or safety of the product.



## Risks related to our reliance on third parties

*We have in the past, and in the future we may, enter into collaborations with third parties to develop or commercialize product candidates. If these collaborations are not successful, our business could be adversely affected.*

We have entered into licensing and collaboration agreements with third parties, including the GSK Agreement, pursuant to which GSK transferred to us Strimvelis, Libmeldy (OTL-200), OTL-103 for WAS and OTL-300 for TDT. In addition, GSK novated to us their R&D and collaboration and license agreement, or the R&D Agreement, with Telethon-OSR. These agreements impose, and we expect that future license agreements will impose, various due diligence, milestone payment, royalty, insurance and other obligations on us. The termination of these agreements could result in our loss of rights to practice the intellectual property licensed to us under these agreements and could compromise our development and commercialization efforts for our current or any future product candidates.

We also entered into a collaboration with Pharming Group N.V. (“Pharming”), pursuant to which Pharming was granted worldwide rights to OTL-105, an investigational *ex vivo* autologous hematopoietic stem cell gene therapy for the treatment of hereditary angioedema. The Company will lead the completion of IND-enabling activities and oversee manufacturing of OTL-105 during preclinical and clinical development, which will be funded by Pharming.

We may enter into additional collaborations in the future. We have limited control over the amount and timing of resources that our current and future collaborators dedicate to the development or commercialization of our product candidates. Our ability to generate revenues from these arrangements will depend on our and our collaborators’ abilities to successfully perform the functions assigned to each of us in these arrangements. Moreover, an unsuccessful outcome in any clinical trial for which our collaborator is responsible could be harmful to the public perception and prospects of our gene therapy platform.

Any collaborations we enter into in the future may pose several risks, including the following:

- collaborators have significant discretion in determining the efforts and resources that they will apply to these collaborations;
- collaborators may not perform their obligations as expected;
- we may not achieve any milestones, or receive any payments, under our collaborations, including milestones and/or payments that we expect to achieve or receive;
- the clinical trials conducted as part of these collaborations may not be successful;
- collaborators may not pursue development and commercialization of any product candidates that achieve regulatory approval or may elect not to continue or renew development or commercialization programs based on clinical trial results, changes in the collaborators’ strategic focus or available funding or external factors, such as an acquisition, that divert resources or create competing priorities;
- collaborators may delay clinical trials, provide insufficient funding for clinical trials, stop a clinical trial or abandon a product candidate, repeat or conduct new clinical trials or require a new formulation of a product candidate for clinical testing;
- we may not have access to, or may be restricted from disclosing, certain information regarding product candidates being developed or commercialized under a collaboration and, consequently, may have limited ability to inform our shareholders about the status of such product candidates;
- collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with our product candidates if the collaborators believe that competitive products are more likely to be successfully developed or can be commercialized under terms that are more economically attractive than ours;
- product candidates developed in collaboration with us may be viewed by our collaborators as competitive with their own product candidates or products, which may cause collaborators to cease to devote resources to the commercialization of our product candidates;
- a collaborator with marketing and distribution rights to one or more of our product candidates that achieve regulatory approval may not commit sufficient resources to the marketing and distribution of any such product candidate;
- disagreements with collaborators, including disagreements over proprietary rights, contract interpretation or the preferred course of development of any product candidates, may cause delays or termination of the research, development or commercialization of such product candidates, may lead to additional responsibilities for us with respect to such product candidates or may result in litigation or arbitration, any of which would be time-consuming and expensive;
- collaborators may not properly maintain or defend our intellectual property rights or may use our proprietary information in such a way as to invite litigation that could jeopardize or invalidate our intellectual property or proprietary information or expose us to potential litigation;

- disputes may arise with respect to the ownership of intellectual property developed pursuant to our collaborations;
- collaborators may infringe the intellectual property rights of third parties, which may expose us to litigation and potential liability; and
- collaborations may be terminated for the convenience of the collaborator and, if terminated, we could be required to raise additional capital to pursue further development or commercialization of the applicable product candidates.

If our collaborations do not result in the successful development and commercialization of products or if one of our collaborators terminates its agreement with us, we may not receive any future research funding or milestone or royalty payments under the collaboration. If we do not receive the funding we expect under these agreements, our development of product candidates could be delayed, and we may need additional resources to develop our product candidates. In addition, if one of our collaborators terminates its agreement with us, we may find it more difficult to attract new collaborators and the perception of us in the business and financial communities could be adversely affected. All of the risks relating to product development, regulatory approval and commercialization described in this Quarterly Report apply to the activities of our collaborators.

We may in the future decide to collaborate with other pharmaceutical and biotechnology companies for the development and potential commercialization of additional product candidates. These relationships, or those like them, may require us to incur non-recurring and other charges, increase our near- and long-term expenditures, issue securities that dilute our existing shareholders or disrupt our management and business. In addition, we could face significant competition in seeking appropriate collaborators and the negotiation process will likely be time-consuming and complex. Our ability to reach a definitive collaboration agreement in such instances will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration and the proposed collaborator's evaluation of several factors. If we license rights to additional product candidates, we may not be able to realize the benefit of such transactions if we are unable to successfully integrate them with our existing operations and company culture.

***We utilize, and expect to continue to utilize, third parties to conduct some or all aspects of our vector production and product manufacturing for the foreseeable future, and these third parties may not perform satisfactorily.***

We are not able to independently manufacture material for our planned clinical programs or our commercial supply of Libmeldy, Strimvelis or any other product for which we obtain marketing approval, if any, and we do not expect to be able to in the foreseeable future. We currently rely on our CDMOs and in some cases academic partners for the production of our viral vectors and product candidates for our ongoing registrational and clinical trials and preclinical studies. For future clinical trials and for Libmeldy and other products for which we obtain marketing approval, if any, we intend to utilize materials manufactured by CDMOs. If our academic partners or these CDMOs do not successfully carry out their contractual duties, meet expected deadlines or manufacture our viral vector and product candidates in accordance with regulatory requirements or if there are disagreements between us and our academic partners or these CDMOs, we will not be able to complete, or may be delayed in completing, the preclinical studies and clinical trials required to support approval of our product candidates or the FDA, EMA or other regulatory agencies may refuse to accept our clinical or preclinical data. In such instances, we may need to enter into an appropriate third-party relationship, which may not be readily available or available on acceptable terms. This could cause additional delay or increased expense prior to the approval of our product candidates and could have a negative impact on our business, financial condition, results of operations and prospects.

We partner with CDMOs and intend to utilize viral vectors and gene therapy products manufactured by CDMOs for our future clinical trials and products for which we obtain marketing approval. In some cases, we may need to perform clinical or analytical or other animal or cell-based testing to demonstrate that materials produced by these CDMOs, or any other third-party manufacturer that we engage, is comparable to the material produced by our academic partners and utilized in our registrational and clinical trials of our product candidates. There is no assurance that these CDMOs, or any other future third-party manufacturer that we engage, will be successful in producing any or all of our viral vector or product candidates, that any such product will, if required, pass the required comparability testing, or that any materials produced by these CDMOs or any other third-party manufacturer that we engage will have the same effect in patients that we have observed to date with respect to materials produced by our academic partners. We believe that our manufacturing network will have sufficient capacity to meet demand for our clinical and existing and expected initial commercial needs, but there is a risk that if supplies are interrupted or result in poor yield or quality, it would materially harm our business. Additionally, if the gene therapy industry were to grow, we may encounter increasing competition for the raw materials and consumables necessary to produce our product candidates. Furthermore, demand for CDMO cGMP manufacturing capabilities may grow at a faster rate than existing manufacturing capacity, which could disrupt our ability to find and retain third-party manufacturers capable of producing sufficient quantities of our viral vectors or product candidates for future clinical trials or to meet expected initial commercial demand.

Under certain circumstances, our current CDMOs may terminate their engagements with us. If we need to enter into alternative arrangements, it could delay our development activities. Our reliance on our CDMOs for certain manufacturing activities will reduce our control over these activities but will not relieve us of our responsibility to ensure compliance with all required regulations.

In addition to our current CDMOs, we may rely on additional third parties to manufacture our viral vectors and/or drug products in the future and to perform quality testing. Reliance on these third parties entails risks that we would not be subject to if we manufactured the product candidates ourselves, including:

- reduced control for certain aspects of manufacturing activities;
- termination or nonrenewal of manufacturing and service agreements with third parties in a manner or at a time that is costly or damaging to us; and
- disruptions to the operations of our third-party manufacturers and service providers caused by conditions unrelated to our business or operations, including the bankruptcy of the manufacturer or service provider or the COVID-19 global pandemic or similar future pandemics or disruptions.

Any of these events could lead to clinical trial delays, failure to obtain regulatory approval or impact our ability to successfully commercialize any of our product candidates. Some of these events could be the basis for FDA, EMA or other regulatory authority action, including injunction, recall, seizure or total or partial suspension of product manufacture.

***We rely on third parties, including independent clinical investigators and CROs, to conduct and sponsor some of the clinical trials of our product candidates. Any failure by a third party to meet its obligations with respect to the clinical development of our product candidates may delay or impair our ability to obtain regulatory approval for our product candidates.***

We have relied upon and plan to continue to rely upon third parties, including independent clinical investigators and third-party CROs, to conduct our preclinical studies and clinical trials, including in some instances sponsoring such clinical trials, and to monitor and manage data for our ongoing preclinical and clinical programs. For example, OTL-102 for X-CGD is currently being investigated in ongoing academic-sponsored clinical trials at Boston Children's Hospital, the NIH and UCLA in the United States, and GOSH in Europe. While we will have agreements governing the activities of our academic partners and CROs, we will control only certain aspects of their activities and have limited influence over their actual performance.

Nevertheless, we are responsible for ensuring that each of our preclinical studies and clinical trials is conducted in accordance with the applicable protocol and legal, regulatory and scientific standards, and our reliance on these third parties does not relieve us of our regulatory responsibilities. We and our third-party contractors and CROs are required to comply with GLP and GCP requirements, which are regulations and guidelines enforced by the FDA, the Competent Authorities of the Member States of the EEA, and comparable foreign regulatory authorities for all of our products in clinical development. Regulatory authorities enforce these GCP requirements through periodic inspections of trial sponsors, principal investigators and trial sites. The FDA, EMA or comparable foreign regulatory authorities may deem the clinical data generated in our clinical trials unreliable and may require us to perform additional clinical trials before approving our marketing applications if, among other things, we fail to exercise adequate oversight over any of our academic partners or CROs or if our academic partners or CROs do not successfully carry out their respective contractual duties or obligations, fail to meet expected deadlines or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to our clinical protocols or regulatory requirements. We cannot assure that upon a regulatory inspection of us, our academic partners or our CROs or other third parties performing services in connection with our clinical trials, such regulatory authority will determine that any of our clinical trials complies with GCP regulations. In addition, our clinical trials must be conducted with product produced under applicable cGMP regulations. Our failure to comply with these regulations may require us to repeat clinical trials, which would delay the regulatory approval process. As a result, our financial results and the commercial prospects for our product candidates would be harmed, our costs could increase, and our ability to generate revenues could be delayed.

We do not control the design or conduct of the academic-sponsored trials, and it is possible that the FDA or EMA will not view these academic-sponsored trials as providing adequate support for future clinical trials or market approval, whether controlled by us or third parties, for any one or more reasons, including elements of the design or execution of the trials or safety concerns or other trial results. Such arrangements provide us certain information rights with respect to the academic-sponsored trials, including access to and the ability to use and reference the data, including for our own regulatory submissions, resulting from the academic-sponsored trials. However, we do not have control over the timing and reporting of the data from academic-sponsored trials, nor do we own the data from the academic-sponsored trials. If we are unable to confirm or replicate the results from the academic-sponsored trials or if negative results are obtained, we would likely be further delayed or prevented from advancing further clinical development of OTL-102 for X-CGD, OTL-203 for MPS-IH, OTL-201 for MPS-IIIA or any other product candidate investigated in an academic-sponsored clinical trial. Further, if investigators or institutions breach their obligations with respect to the clinical development of our product candidates or if the data proves to be inadequate compared to the first-hand knowledge we might have gained had the academic-

sponsored trials been sponsored and conducted by us, then our ability to design and conduct any future clinical trials ourselves may be adversely affected.

Additionally, the FDA or EMA may disagree with the sufficiency of our right of reference to the preclinical, manufacturing or clinical data generated by these academic-sponsored trials or our interpretation of preclinical, manufacturing or clinical data from these academic-sponsored trials. If so, the FDA or EMA may require us to obtain and submit additional preclinical, manufacturing or clinical data.

***We and our contract manufacturers are subject to significant regulation with respect to manufacturing our viral vectors and drug products. The manufacturing facilities on which we rely may not continue to meet regulatory requirements and have limited capacity.***

We currently have relationships with a limited number of suppliers for the manufacturing of our viral vectors and drug products. Each supplier may require licenses to manufacture such components if such processes are not owned by the supplier or in the public domain, and we may be unable to transfer or sublicense the intellectual property rights we may have with respect to such activities.

All entities involved in the preparation of therapeutics for clinical trials or commercial sale, including our existing CDMOs for our viral vectors and drug product, are subject to extensive regulation. Components of a finished therapeutic product approved for commercial sale or used in clinical trials, including in some cases critical raw materials used in the manufacture thereof, must be manufactured in accordance with cGMP. Poor control of production processes can lead to the introduction of adventitious agents or other contaminants, or to inadvertent changes in the properties or stability of our viral vectors or product candidates that may not be detectable in final product testing. We or our CDMOs must supply all necessary documentation in support of a BLA or MAA on a timely basis and must adhere to the FDA's and EMA's cGMP and other applicable regulations that are enforced through facilities inspection programs. Some of our CDMOs have not produced a commercially-approved product and have never been inspected by the FDA or other regulatory body. Our quality systems and the facilities and quality systems of some or all of our CDMOs must pass a pre-approval inspection for compliance with the applicable regulations as a condition of regulatory approval of our product candidates or any of our other potential products. In addition, the regulatory authorities may, at any time, audit or inspect a manufacturing facility involved with the preparation of our viral vector or drug product or our other potential products or the associated quality systems for compliance with the regulations applicable to the activities being conducted.

If any such inspection or audit identifies a failure to comply with applicable regulations or if a violation of our product specifications or applicable regulations occurs independent of such an inspection or audit, we or the relevant regulatory authority may require remedial measures that may be costly and/or time-consuming for us or a third party to implement and that may include the temporary or permanent suspension of a clinical trial or commercial sales or the temporary or permanent closure of a facility. Any such remedial measures imposed upon us or third parties with whom we contract could materially harm our business.

If we or any of our CDMOs fail to maintain regulatory compliance, the FDA can impose regulatory sanctions including, among other things, refusal to approve a pending application for a new product or biologic product, or revocation of a pre-existing approval. As a result, our business, financial condition and results of operations may be materially harmed.

These factors could cause the delay of clinical trials, regulatory submissions, required approvals of our product candidates or commercialization of our commercial products or product candidates, if approved, and cause us to incur higher costs and prevent us from commercializing our products successfully. Furthermore, if our suppliers fail to meet contractual requirements, and we are unable to secure one or more replacement suppliers capable of production at a substantially equivalent cost, our preclinical studies and clinical trials may be delayed.

***We are dependent on a limited number of suppliers and, in some instances, a sole supplier, for some of our components and materials used in our product candidates.***

We currently depend on a limited number of suppliers and, in some instances, a sole supplier, for some of the components and equipment necessary for the production of our viral vectors and drug product. We cannot be sure that these suppliers will remain in business, or that they will not be purchased by one of our competitors or another company that is not interested in continuing to produce these materials for our intended purpose. Our use of a sole or a limited number of suppliers of raw materials, components and finished goods exposes us to several risks, including disruptions in supply, price increases, late deliveries and an inability to meet customer demand. There are, in general, relatively few alternative sources of supply for these components, and, in some cases, no alternatives. These vendors may be unable or unwilling to meet our future demands for our clinical trials or commercial sale. Establishing additional or replacement suppliers for these components could take a substantial amount of time and it may be difficult to establish replacement suppliers who meet regulatory requirements. As a result of the COVID-19 pandemic, we may experience

supply shortages from some of our suppliers. Any disruption in supply from any supplier or manufacturing location could lead to supply delays or interruptions which would damage our business, financial condition, results of operations and prospects.

If we are required to switch to a replacement supplier, the manufacture and delivery of our viral vectors and product candidates could be interrupted for an extended period, adversely affecting our business. Establishing additional or replacement suppliers may not be accomplished quickly. If we are able to find a replacement supplier, the replacement supplier would need to be qualified and may require additional regulatory authority approval, which could result in further delay. For example, the FDA or EMA could require additional supplemental data, manufacturing data and comparability data up to and including clinical trial data if we rely upon a new supplier. While we seek to maintain adequate inventory of the components and materials used in our product candidates, any interruption or delay in the supply of components or materials, or our inability to obtain components or materials from alternate sources at acceptable prices in a timely manner, could impair our ability to conduct our clinical trials and, if our product candidates are approved, to meet the demand of our customers and cause them to cancel orders.

In addition, as part of the FDA's approval of our product candidates, the FDA must review and approve the individual components of our production process, which includes raw materials, the manufacturing processes and facilities of our suppliers. Some of our current suppliers have not undergone this process nor have they had any components included in any product approved by the FDA.

Our reliance on these suppliers subjects us to a number of risks that could harm our reputation, business, and financial condition, including, among other things:

- the interruption of supply resulting from modifications to or discontinuation of a supplier's operations;
- delays in product shipments resulting from uncorrected defects, reliability issues, or a supplier's variation in a component;
- a lack of long-term supply arrangements for key components with our suppliers;
- the inability to obtain adequate supply in a timely manner, or to obtain adequate supply on commercially reasonable terms;
- difficulty and cost associated with locating and qualifying alternative suppliers for our components in a timely manner;
- production delays related to the evaluation and testing of products from alternative suppliers, and corresponding regulatory qualifications;
- a delay in delivery due to our suppliers prioritizing other customer orders over ours;
- damage to our reputation caused by defective components produced by our suppliers;
- increased cost of our warranty program due to product repair or replacement based upon defects in components produced by our suppliers;
- interruptions, shortages, delivery delays and potential discontinuation of supply as a result of the ongoing COVID-19 global pandemic, or any recurrence of the pandemic or future pandemics; and
- fluctuation in delivery by our suppliers due to changes in demand from us or their other customers.

If any of these risks materialize, costs could significantly increase and our ability to conduct our clinical trials and, if our product candidates are approved, to meet demand for our products could be impacted.

***Our reliance on third parties requires us to share our trade secrets, which increases the possibility that a competitor will discover them or that our trade secrets will be misappropriated or disclosed.***

Because we currently rely on third parties to manufacture our vectors and our commercial products and product candidates, and because we collaborate with various organizations and academic institutions on the advancement of our gene therapy approach, we must, at times, share trade secrets with such third parties. We seek to protect our proprietary technology in part by entering into confidentiality agreements and, if applicable, material transfer agreements, collaborative research agreements, consulting agreements or other similar agreements with our collaborators, advisors, employees and consultants prior to beginning research or disclosing proprietary information. These agreements typically limit the rights of the third parties to use or disclose our confidential information, such as trade secrets.

Despite the contractual provisions employed when working with third parties, the need to share trade secrets and other confidential information increases the risk that such trade secrets become known by our competitors, are inadvertently incorporated into the technology of others, or are disclosed or used in violation of these agreements. Given that our proprietary position is based, in part, on our know-how and trade secrets, a competitor's discovery of our trade secrets or other unauthorized use or disclosure would impair our competitive position and may have a material adverse effect on our business.

In addition, these agreements typically restrict the ability of our collaborators, advisors, employees and consultants to publish data potentially relating to our trade secrets. Our academic collaborators typically have rights to publish data, provided that we are

notified in advance and may delay publication for a specified time in order to secure our intellectual property rights arising from the collaboration. In other cases, publication rights are controlled exclusively by us, although in some cases we may share these rights with other parties. Despite our efforts to protect our trade secrets, our competitors may discover our trade secrets, either through breach of these agreements, independent development or publication of information including our trade secrets in cases where we do not have proprietary or otherwise protected rights at the time of publication. A competitor's discovery of our trade secrets would impair our competitive position and have an adverse impact on our business.

### **Risks related to commercialization of our product candidates**

***If we are unable to establish effective sales and marketing capabilities or enter into agreements with third parties to market, sell and gain reimbursement for Libmeldy and our product candidates that may be approved, we may not be successful in commercializing Libmeldy or our product candidates if and when approved, and we may be unable to generate any product revenue.***

We intend to commercialize our product candidates, if approved, in the United States, Europe, and other markets, and we are currently undertaking preparations for our commercial launch of Libmeldy in Europe. We intend to commercialize Libmeldy and our other product candidates, if approved, directly with specialized teams, given the relative rarity of the indications we are targeting. Although we have substantially built out our initial commercial infrastructure in preparation for our commercial launch of Libmeldy in Europe, we are continuing to build out our commercial capabilities and infrastructure and have a limited marketing and sales team for the marketing, sales and distribution of Strimvelis, Libmeldy and our product candidates, if approved. In order to commercialize Libmeldy, Strimvelis, if sales resume, and OTL-103 for WAS, if approved, or any of our other product candidates that may be approved, we must continue to build and expand, on a territory-by-territory basis, marketing, sales, distribution, managerial and other capabilities or make arrangements with third parties to perform these services, and we may not be successful in doing so. If we are unable to establish sufficient commercial capabilities and infrastructure, we may be unable to generate sufficient revenue to sustain our business.

There are risks involved with both establishing our own sales and marketing capabilities and entering into arrangements with third parties to perform these services. For example, recruiting and training a commercial organization is expensive and time consuming and could delay any product launch. If the commercial launch of a product candidate for which we recruit a sales force and establish marketing capabilities is delayed or does not occur for any reason, we would have prematurely or unnecessarily incurred these commercialization expenses. This may be costly and our investment would be lost if we cannot retain or reposition our sales and marketing personnel.

Factors that may inhibit our efforts to commercialize Libmeldy and our product candidates, if approved, on our own include:

- the inability to recruit, train and retain adequate numbers of effective sales and marketing personnel;
- the inability of sales personnel to obtain access to physicians or persuade adequate numbers of physicians to prescribe any future product that we may develop;
- changes or setbacks at treatment centers contracted for the administration of any approved treatments;
- the occurrence of adverse events;
- the lack of complementary treatments to be offered by sales personnel, which may put us at a competitive disadvantage relative to companies with more extensive product lines; and
- unforeseen costs and expenses associated with creating an independent sales and marketing organization.

In addition, we will need to commit significant additional management and other resources to maintain and grow our sales organization. We may not be able to achieve the necessary development and growth in a cost-effective manner or realize a positive return on our investment.

If we enter into arrangements with third parties to perform sales, marketing and distribution services, our product revenue or the profitability to us from these revenue streams is likely to be lower than if we were to market and sell any product candidates that we develop ourselves. In addition, we may not be successful in entering into arrangements with third parties to sell and market our product candidates or may be unable to do so on terms that are favorable to us. We likely will have little control over such third parties, and any of them may fail to devote the necessary resources and attention to sell and market our product candidates effectively. If we do not establish sales and marketing capabilities successfully, either on our own or in collaboration with third parties, we may not be successful in commercializing our product candidates.

***If we are unable to expand our market development capabilities or enter into agreements with third parties to market, sell and gain reimbursement for Libmeldy and any of our product candidates for which we obtain marketing approval, we will be unable to generate any product revenue.***

To successfully commercialize Libmeldy and any products that may result from our development programs, we need to continue to expand our market development capabilities, either on our own or with others. The development of our own marketing capabilities is, and will continue to be, expensive and time-consuming and could delay any product launch, including our planned launch of Libmeldy in Europe. Moreover, we cannot be certain that we will be able to successfully develop this capability. We may enter into collaborations regarding any approved product candidates with other entities to utilize their established marketing and distribution capabilities, but we may be unable to enter into such agreements on favorable terms, if at all. If any future collaborators do not commit sufficient resources to commercialize our product candidates, or if we are unable to develop the necessary capabilities on our own, we will be unable to generate sufficient product revenue to sustain our business. We compete with many companies that currently have extensive, experienced and well-funded sales, distribution and marketing operations to recruit, hire, train and retain marketing and sales personnel. We also face competition in our search for third parties to assist us with the sales and marketing efforts of our product candidates, if approved. Without an internal team or the support of a third party to perform marketing and sales functions, we may be unable to compete successfully against these more established companies.

***We face significant competition in our industry and there can be no assurance that our commercial products or our product candidates, if approved, will achieve acceptance in the market over existing established therapies. In addition, our competitors may develop therapies that are more advanced or effective than ours, which may adversely affect our ability to successfully market or commercialize any of our product candidates.***

We operate in a highly competitive segment of the biopharmaceutical market. We face competition from many different sources, including larger pharmaceutical, specialty pharmaceutical and biotechnology companies, as well as from academic institutions, government agencies and private and public research institutions. Our product candidates, if successfully developed and approved, will compete with established therapies, some of which are being marketed by large and international companies. In addition, we expect to compete with new treatments that are under development or may be advanced into the clinic by our competitors. There are a variety of product candidates, including gene therapies, in development for the indications that we are targeting, including new areas that we may target as part of our strategic initiatives.

We rely primarily on know-how and trade secret protection for aspects of our proprietary technologies, Libmeldy, Strimvelis and our product candidates. We do not have any issued patents covering Libmeldy, Strimvelis or our product candidates. This means that barriers to entry that typically apply in the case of pharmaceutical and biopharmaceutical companies with issued patents covering aspects of their proprietary technologies, products and product candidates, such as composition of matter claims, will generally not apply to our commercial products or our product candidates, and this may expose us to competition from other biopharmaceutical companies, particularly those companies that possess greater financial resources and more mature product candidate development, manufacturing, marketing and distribution resources than we do. Although our product candidates, if approved, may be eligible for marketing and/or data exclusivities in, for example, the United States and Europe, these exclusivities would not prevent another biopharmaceutical company from conducting its own clinical trials to develop and seek regulatory approval of a competitive product. We are not the only company that is developing and commercializing products using a lentiviral-based autologous *ex vivo* gene therapy approach, and these competitive approaches may be comparable or superior to our approach. One or more of these companies may seek to develop products that compete directly with our commercial products or one or more of our product candidates, the result of which could have a material adverse effect on our business. In addition, many universities and private and public research institutes are active in our target disease areas.

Many of our competitors have significantly greater financial, product candidate development, manufacturing and marketing resources than we do. Large pharmaceutical and biotechnology companies have extensive experience in clinical testing and obtaining regulatory approval for their products, and mergers and acquisitions within these industries may result in even more resources being concentrated among a smaller number of larger competitors. Established pharmaceutical companies may also invest heavily to accelerate discovery and development of novel therapeutics or to in-license novel therapeutics that could make the product candidates that we develop obsolete. Competition may increase further as a result of advances in the commercial applicability of technologies and greater availability of capital for investment in these industries. Our business would be materially and adversely affected if competitors develop and commercialize products that are safer, more effective, have fewer or less severe side effects, have broader market acceptance, are more convenient or are less expensive than any product candidate that we may develop.

Even if we obtain regulatory approval of our product candidates, the availability and price of our competitors' products could limit the demand and the price we are able to charge for our product candidates. We may not be able to implement our business plan if the acceptance of our product candidates is inhibited by price competition or the reluctance of physicians to switch from existing

methods of treatment to our product candidates, or if physicians switch to other new drug or biologic products or choose to reserve our product candidates for use in limited circumstances.

***If the size and value of the market opportunities for our commercial products or product candidates are smaller than our estimates, or if we have difficulty in finding patients that meet eligibility requirements for Libmeldy, Strimvelis or any of our product candidates, if approved, our product revenues may be adversely affected and our business may suffer.***

We focus our research and product development on treatments for immunological disorders and inherited neurometabolic and neurodegenerative genetic disorders. We base our market opportunity estimates on a variety of factors, including our estimates of the number of people who have these diseases, the potential scope of our approved product labels, the subset of people with these diseases who have the potential to benefit from treatment with our product candidates, various pricing scenarios, and our understanding of reimbursement policies for rare diseases in particular countries. These estimates are based on many assumptions and may prove to be incorrect, and new studies may reduce the estimated incidence or prevalence of these diseases. Estimating market opportunities can be particularly challenging for ultra-rare indications, such as the ones we currently address, as epidemiological data is often more limited than for more prevalent indications and can require additional assumptions to assess potential patient populations. For example, as we advance our product candidates towards commercialization, learn more about market dynamics and engage with regulators on potential marketing approvals, our view of the initial potential market opportunity for our products will become more refined. In some cases, the approved label may initially be directed to a narrower patient population with the opportunity to expand the label upon submission of additional clinical data. For example, in the case of Libmeldy, we are now initially focused primarily on annual incidence of the disease, and in the case of OTL-103 for WAS we are initially focused primarily on prevalence of the disease. In each case this means the initial market opportunity for these product candidates may be smaller than the total addressable market opportunity that could be achieved over time. If we are unable to advance product candidates with attractive market opportunities, our future product revenues may be smaller than anticipated and our business may suffer. Patient identification efforts also influence the ability to address a patient population. If efforts in patient identification are unsuccessful or less impactful than anticipated, for instance, because of a lack of newborn screening or diagnostic initiatives, inadequate disease awareness among healthcare providers, or otherwise, we may not address the entirety of the opportunity we are seeking. As a result, patients may be difficult to identify and access, the addressable patient population in the United States, Europe and elsewhere may turn out to be lower than expected, or patients may not be otherwise amenable to treatment with our products, all of which would adversely affect our business, financial condition, results of operations and prospects.

***The commercial success of any current or future product candidate will depend upon the degree of market acceptance by physicians, patients, payors and others in the medical community.***

Even if we obtain any regulatory approval for our product candidates, the commercial success of our product candidates will depend in part on the medical community, patients, and payors accepting gene therapy products in general, and our product candidates in particular, as effective, safe and cost-effective. Any product that we bring to the market may not gain market acceptance by physicians, patients, payors and others in the medical community. The degree of market acceptance of these product candidates, if approved for commercial sale, will depend on a number of factors, including:

- the potential efficacy and potential advantages over alternative treatments;
- the frequency and severity of any side effects, including any limitations or warnings contained in a product's approved labeling;
- the frequency and severity of any side effects resulting from the conditioning regimen or follow-up requirements for the administration of our product candidates;
- the relative convenience and ease of administration;
- the willingness of the target patient population to try new therapies and of physicians to prescribe these therapies;
- the strength of marketing and distribution support and timing of market introduction of competitive products;
- publicity concerning our products or competing products and treatments; and
- sufficient third-party insurance coverage or reimbursement.

Even if a product candidate displays a favorable efficacy and safety profile in preclinical studies and clinical trials, market acceptance of the product, if approved for commercial sale, will not be known until after it is launched. Our efforts to educate the medical community and payors on the benefits of our product candidates may require significant resources and may never be successful. Such efforts to educate the marketplace may require more resources than are required by the conventional technologies marketed by our competitors. If these products do not achieve an adequate level of acceptance, we may not generate significant product revenue and may not become profitable.



***The insurance coverage and reimbursement status of newly-approved products is uncertain. Failure to obtain or maintain adequate coverage and reimbursement for any of our product candidates, if approved, could limit our ability to market those products and decrease our ability to generate revenue.***

We expect the cost of a single administration of gene therapy products, such as those we are developing, to be substantial, when and if they achieve market approval. In the United States and markets in other countries, patients generally rely on third-party payors to reimburse all or part of the costs associated with their treatment. The availability and extent of reimbursement by governmental and private payors is essential for most patients to be able to afford expensive treatments, such as stem cell transplants. Sales of our product candidates will depend substantially, both domestically and abroad, on the extent to which the costs of our product candidates will be covered and paid by health maintenance, managed care, pharmacy benefit and similar healthcare management organizations, or reimbursed by government health administration authorities, private health coverage insurers and other payors. If coverage and adequate reimbursement are not available, or are available only to limited levels, we may not be able to successfully commercialize our product candidates. Even if coverage is provided, the approved reimbursement amount may not be high enough to allow us to establish or maintain pricing sufficient to realize a sufficient return on our investment.

We may not be able to provide data sufficient to gain acceptance with respect to coverage and reimbursement. If reimbursement is not available, or is available only at limited levels, we may not be able to successfully commercialize our product candidates, if approved. The process for determining whether a payor will provide coverage for a product may be separate from the process for setting the reimbursement rate that the payor will pay for the product. Payors may limit coverage to specific products on an approved list, or formulary, which might not include all of the FDA-approved products for a particular indication. A decision by a payor not to cover our gene therapies could reduce physician utilization of our products once approved and have a material adverse effect on our sales, results of operations and financial condition.

There is significant uncertainty related to the insurance coverage and reimbursement of newly approved products. In the United States, the principal decisions about coverage and reimbursement for new medicines are typically made by the Centers for Medicare & Medicaid Services, or CMS, an agency within the U.S. Department of Health and Human Services, or HHS. CMS decides whether and to what extent a new medicine will be covered and reimbursed under Medicare. Private payors tend to follow the CMS to a substantial degree. It is difficult to predict what the CMS will decide with respect to reimbursement for fundamentally novel products such as ours, as there is no body of established practices and precedents for these new products. Factors payors consider in determining reimbursement are based on whether the product is:

- a covered benefit under its health plan;
- safe, effective and medically necessary;
- appropriate for the specific patient;
- cost-effective; and
- neither experimental nor investigational.

Outside the United States, certain countries, including a number of member states of the European Union, set prices and reimbursement for pharmaceutical products, or medicinal products, as they are commonly referred to in the European Union, with limited participation from the marketing authorization holders. We cannot be sure that such prices and reimbursement will be acceptable to us or our collaborators. If the regulatory authorities in these jurisdictions set prices or reimbursement levels that are not commercially attractive for us or our collaborators, our revenues from sales by us or our collaborators, and the potential profitability of our drug products, in those countries would be negatively affected. Some countries may also require the completion of clinical trials that compare the cost effectiveness of a particular product candidate to currently available therapies. An increasing number of countries are taking initiatives to attempt to reduce large budget deficits by focusing cost-cutting efforts on pharmaceuticals for their state-run health care systems. These international price control efforts have impacted all regions of the world, but have been most drastic in the European Union. Additionally, some countries require approval of the sale price of a product before it can be marketed. In many countries, the pricing review period begins after marketing or product licensing approval is granted. As a result, we might obtain marketing approval for a product in a particular country, but then may experience delays in the reimbursement approval of our product or be subject to price regulations that would delay our commercial launch of the product, possibly for lengthy time periods, which could negatively impact the revenues we are able to generate from the sale of the product in that particular country. There can be no assurance that any country that has price controls or reimbursement limitations for pharmaceutical products will allow favorable reimbursement and pricing arrangements for any of our product candidates. Historically, products launched in the European Union do not follow price structures of the U.S. and generally prices tend to be significantly lower.

Moreover, efforts by governmental and payors, in the United States and abroad, to cap or reduce healthcare costs may cause such organizations to limit both coverage and level of reimbursement for new products approved, and, as a result, they may not cover or provide adequate payment for our product candidates. We expect to experience pricing pressures in connection with the sale of any of our product candidates, due to the trend toward managed healthcare, the increasing influence of health maintenance organizations and additional legislative changes. The downward pressure on healthcare costs in general, particularly prescription drugs and surgical

procedures and other treatments, has become very intense. As a result, increasingly high barriers are being erected to the entry of new products.

***Due to the novel nature of our technology and the potential for our product candidates to offer therapeutic benefit in a single administration, we face uncertainty related to pricing and reimbursement for these product candidates.***

We are targeting rare diseases for which the patient populations are relatively small. In addition, treatment with any of our product candidates involves only a single administration. As a result, the pricing and reimbursement of our product candidates, if approved, must be adequate to support commercial infrastructure. It is possible that commercially available products may serve as a reference price that, for various reasons, may be lower than the price we need to obtain for our product candidates. If we are unable to obtain adequate levels of reimbursement, our ability to successfully market and sell our product candidates will be adversely affected. The manner and level at which reimbursement is provided for services related to our product candidates (*e.g.*, for administration of our product to patients) is also important. Inadequate reimbursement for such services may lead to physician resistance and adversely affect our ability to market or sell our product candidates, if approved.

#### **Risks related to the impact of COVID-19**

***Business interruptions resulting from the COVID-19 pandemic or similar public health crises have caused and may cause or continue to cause a disruption to the development of our product candidates and adversely impact our business.***

Public health crises such as pandemics or similar outbreaks can adversely impact our business. The COVID-19 global pandemic has caused significant disruptions to the U.S. and global economies, has contributed to significant volatility and negative pressure in financial markets, and has led to the implementation of various responses, including government-imposed quarantines, travel restrictions and other public health safety measures, which have impacted various aspects of our business and our operations and are likely to continue to impact our operations. The extent to which the COVID-19 global pandemic impacts our operations, or those of our third-party partners, will depend on future developments, which are highly uncertain and cannot be predicted with confidence. Such developments include the duration of the pandemic and related disruptions as a result of “shelter-in-place” orders or similar mandatory or voluntary restrictions, renewed outbreaks in the future, including of novel strains of the virus, the ability to distribute and deliver approved vaccines on a timely basis and the effectiveness of such vaccines, new information that may emerge concerning the severity of the pandemic and other actions to contain the coronavirus or treat its impact, among others.

In response to the pandemic, we implemented a work from home policy. Most of our administrative employees continue to work outside of our offices, and we have reduced on-site staff significantly and, in some cases, restricted on-site staff to only those required to execute certain laboratory and related support activities. Continued remote working could have a variety of impacts on our business, including increasing our cyber security risk, creating data accessibility concerns, and making us more susceptible to communication disruptions, any of which could adversely impact our business operations or delay necessary interactions with regulators, manufacturing sites and clinical trial sites. We may also experience difficulty in recruiting and onboarding new employees. In addition, as a result of continued shelter-in-place orders or policies or other mandated travel restrictions, our on-site staff conducting research and development, preclinical studies, and manufacturing activities may not be able to access our laboratories or manufacturing space, and these core activities may be significantly limited or curtailed, possibly for an extended period of time.

We are conducting clinical trials for our product candidates in the United States and Europe, which are currently being affected by the COVID-19 pandemic and will likely continue to be affected. While our clinical sites are still treating and following up with patients in clinical trials, these centers are also devoting significant resources to patients with COVID-19, which could limit their ability to enroll additional patients in ongoing clinical trials or follow-up with existing patients. Some factors from the COVID-19 pandemic that have delayed and may continue to delay or otherwise adversely affect enrollment in or the progress of our clinical trials for some or all of our product candidates, as well as our business generally, include:

- the potential diversion of healthcare resources away from the conduct of clinical trials to focus on pandemic concerns, including the attention of physicians serving as our clinical trial investigators, hospitals or academic centers serving as our clinical trial sites and staff supporting the conduct of our clinical trials;
- limitations on travel that could interrupt treatment center qualification, key trial activities, such as clinical trial site initiations and monitoring, domestic and international travel by employees, contractors or patients to clinical trial sites, including any government-imposed travel restrictions or quarantines that may impact the ability or willingness of patients, employees or contractors to travel to our clinical trial sites or secure visas or entry permissions, any of which could delay or adversely impact the conduct or progress of our clinical trials;
- interruption in global shipping affecting the transport of clinical trial materials, such as patient samples, investigational drug product and conditioning drugs and other supplies used in our clinical trials;

- business disruptions caused by potential workplace, laboratory and office closures and an increased reliance on employees working from home, disruptions to or delays in ongoing laboratory experiments and operations, disruptions or delays in subleasing any leased facilities no longer required for our business operations, staffing shortages, travel limitations or mass transit disruptions, any of which could adversely impact our business operations or delay necessary interactions with local regulators, ethics committees and other important agencies and contractors;
- business disruptions involving our third parties on whom we rely, including CROs and other collaborators for the conduct of our clinical trials or our third-party suppliers or CDMOs, which could impact their ability to perform adequately or disrupt our supply chain; and
- changes in hospital or research institution policies or government regulations, which could delay or adversely impact our ability to conduct our clinical trials.

Trial procedures (particularly any procedures that may be deemed non-essential), patient dosing, shipment of our product candidates, distribution of clinical trial materials, study monitoring, site inspections and data analysis may be paused or delayed due to the above factors or other reasons related to the pandemic. Furthermore, if the coronavirus, including new strains of the virus, continues to spread, or recurs in the future, or if approved vaccines are not as effective as anticipated or are significantly delayed in being administered, some patients and clinical investigators may not be able to comply with clinical trial protocols or we may see increased rates of patients withdrawing from any planned clinical trial following enrollment, including as a result of contracting COVID-19, quarantines or other travel limitations (whether voluntary or required), which may impede patient movement, affect access to trial sites, or interrupt healthcare services. Moreover, follow-up visits associated with our active clinical trials are in most cases being conducted using alternative data collection approaches due to COVID-19 travel and other trial site limitations. Though we are following the FDA, EMA and certain country-specific guidance on the management of clinical trials during the COVID-19 pandemic, we may also utilize other alternative approaches that may not be as effective as traditional approaches, and regulatory bodies, such as the FDA and EMA, may not approve such data collection techniques and may consider the data collected during the COVID-19 pandemic insufficient support for the relevant regulatory filings. Additionally, we have experienced and anticipate that the COVID-19 pandemic may continue to result in regulatory delays, such as delays in receiving regulatory advice, reviews of applications, or performance of inspections required for approvals. The pandemic may also result in greater regulatory uncertainty. For example, while the FDA and EMA have issued guidance to provide biopharmaceutical manufacturers greater flexibility in certain regulatory areas, including remote monitoring, protocol deviations and adverse event reporting, such flexibility may result in greater uncertainty regarding the expectations of such health authorities in relation to this guidance and the adequacy of the data collected during the COVID-19 pandemic to support regulatory filings. Any disruption or delay in our ability to complete preclinical and clinical development of our product candidates could impair our ability to successfully gain regulatory approval for and ultimately commercialize our product candidates and may harm our business and results of operations.

The extent and impact of such disruptions are currently unpredictable. Any prolongation or de-prioritization of our clinical trials or delay in regulatory review resulting from such disruptions could materially affect the development, study and regulatory submissions of our product candidates. The COVID-19 global pandemic may also result in interruption or delays in the operations of the FDA and EMA and other regulatory agencies, which could further delay our anticipated regulatory submissions and any potential approval of our product candidates.

In addition, the COVID-19 pandemic initially impacted our ability to generate revenue from the sale of Strimvelis, as Ospedale San Raffaele, Milan, Italy, the treatment site for Strimvelis, postponed scheduling and treating non-urgent patients with the therapy for approximately three months. Although we derive limited revenue from sales of Strimvelis, a prolonged postponement of treatments would significantly reduce our sole source of product revenue. The COVID-19 pandemic may also result in a diversion of payor or government resources away from health technology assessment, reimbursement or market access activities, which could delay our efforts to commercialize Libmeldy in the EU.

The extent to which the COVID-19 pandemic impacts our business, and our clinical development and regulatory efforts, as well as our supply chain, will depend on future developments that are highly uncertain and cannot be predicted with confidence, such as the ultimate geographic spread of the disease, the duration of the outbreak, government actions, such as travel restrictions, quarantines and social distancing requirements in the U.S. and in other countries, business closures or business disruptions and the effectiveness of actions taken in the U.S. and in other countries to contain and treat the disease. Accordingly, we do not yet know the full extent of potential delays or impacts on our business, our clinical and regulatory activities, our research programs, healthcare systems or the global economy as a whole. However, these effects could materially and adversely affect our business, financial condition, results of operations and growth prospects, which may in turn also have the effect of heightening many of the other risks and uncertainties described elsewhere in this “Risk Factors” section.

## Risks related to our business operations

***Our gene therapy approach utilizes vectors derived from viruses, which may be perceived as unsafe or may result in unforeseen adverse events. Negative public opinion and increased regulatory scrutiny of gene therapy and genetic research may damage public perception of our product candidates or adversely affect our ability to conduct our business or obtain regulatory approvals for our product candidates.***

Gene therapy remains a novel technology, with only a limited number of gene therapy products approved to date. Public perception may be influenced by claims that gene therapy is unsafe, and gene therapy may not gain the acceptance of the public or the medical community. In particular, our success will depend upon physicians specializing in the treatment of those diseases that our product candidates target prescribing treatments that involve the use of our product candidates in lieu of, or in addition to, existing treatments they are already familiar with and for which greater clinical data may be available. More restrictive government regulations or negative public opinion would have a negative effect on our business or financial condition and may delay or impair the development and commercialization of our product candidates or demand for any products we may develop. Adverse events in our clinical trials, even if not ultimately attributable to our product candidates (such as the many adverse events that typically arise from the conditioning process), or adverse events in other lentiviral gene therapy trials, and the resulting publicity could result in increased governmental regulation, unfavorable public perception, potential regulatory delays in the testing or approval of our potential product candidates, stricter labeling requirements for those product candidates that are approved and a decrease in demand for any such product candidates.

***Increasing demand for compassionate use of our unapproved therapies could result in losses.***

We are developing our autologous *ex vivo* gene therapies to address rare diseases for which there are currently limited or no available therapeutic options. Media attention to individual patients' expanded access requests has resulted in the introduction and/or passage of legislation at the local and national level referred to as "Right to Try" laws which are intended to help enable patient access to unapproved therapies. Such legislation includes the Trickett Wendler, Frank Mongiello, Jordan McLinn, and Matthew Bellina Right to Try Act of 2017, which was signed into law on May 30, 2018. New and emerging legislation regarding expanded access to unapproved drugs for life-threatening illnesses could negatively impact our business in the future.

A possible consequence of both activism and legislation in this area is the need for us to initiate an unanticipated expanded access program or to make our product candidates more widely available sooner than anticipated. We have limited resources and unanticipated trials or access programs could result in diversion of resources from our primary goals.

In addition, patients who receive access to unapproved drugs through compassionate use or expanded access programs have life-threatening illnesses and have exhausted all other available therapies. The risk for SAEs in this patient population is high, which could have a negative impact on the safety profile of our product candidates. This could cause significant delays or an inability to successfully commercialize our product candidates, which could materially harm our business.

***Our future results will suffer if we do not effectively manage our expanded operations as a result of our acquisition of Strimvelis, Libmeldy (OTL-200), OTL-103 for WAS, OTL-203 for MPS-IH and OTL-300 for TDT or of future acquisitions or strategic transactions.***

We acquired worldwide rights to Libmeldy (OTL-200), Strimvelis, OTL-103 for WAS and OTL-300 for TDT in April 2018 pursuant to the GSK Agreement, and worldwide rights to OTL-203 for MPS-IH in May 2019 pursuant to an exclusive licensing agreement with Telethon-OSR. The GSK Agreement significantly changed the composition of our operations, markets and product candidate mix, and we are continuing to adapt our organization to support these acquisitions. For example, in May 2020, we announced a reduction of the investment in and scope of our OTL-101 and OTL-300 programs and, based on the reallocation of capital, we have determined to prioritize other programs, including research and development projects in less rare indications. Further, in May 2021, we announced that we would terminate the license relating to OTL-101, and such termination has taken effect. Our future success depends, in part, on our ability to continue to address these changes, and, where necessary, to attract and retain new personnel that possess the requisite skills called for by these changes.

Our failure to adequately address the financial, operational or legal risks of our acquisition of the rights to Libmeldy, Strimvelis, OTL-103 for WAS, OTL-203 for MPS-IH and OTL-300 for TDT, or any future acquisitions, license arrangements or other strategic transactions related to our current or future product candidates could harm our business. Financial aspects of such future transactions that could alter our financial position, or operating results include:

- use of cash resources;
- higher than anticipated acquisition costs and expenses;

- potentially dilutive issuances of equity securities;
- the incurrence of debt and contingent liabilities, impairment losses or restructuring charges;
- large write-offs and difficulties in assessing the relative percentages of in-process research and development expense that can be immediately written off as compared to the amount that must be amortized over the appropriate life of the asset; and
- amortization expenses related to other intangible assets.

Operational risks that could harm our existing operations or prevent realization of anticipated benefits from these transactions include:

- challenges associated with managing an increasingly diversified business;
- disruption of our ongoing business;
- difficulty and expense in assimilating the operations, products, technology, information systems or personnel of the acquired company;
- entry into a geographic or business market in which we have little or no prior experience;
- inability to maintain uniform standards, controls, procedures and policies;
- the assumption of known and unknown liabilities of the acquired business or asset, including intellectual property claims; and
- subsequent loss of key personnel.

Our future success depends, in part, upon our ability to manage our expansion opportunities. Integrating new operations into our existing business in an efficient and timely manner, successfully monitoring our operations, costs, regulatory compliance and customer relationships, and maintaining other necessary internal controls pose substantial challenges for us. As a result, we cannot assure that our expansion or acquisition opportunities will be successful or that we will realize our expected operating efficiencies, cost savings, revenue enhancements, synergies or other benefits.

***We face potential product liability, and, if successful claims are brought against us, we may incur substantial liability and costs. If the use of Libmeldy, Strimvelis or our product candidates harms patients, or is perceived to harm patients even when such harm is unrelated to our product candidates, our regulatory approvals could be revoked or otherwise negatively impacted and we could be subject to costly and damaging product liability claims.***

The use of our product candidates in clinical trials and the sale of Strimvelis and planned sales of Libmeldy or any products for which we obtain marketing approval exposes us to the risk of product liability claims. Product liability claims might be brought against us by consumers, healthcare providers, pharmaceutical companies or others selling or otherwise coming into contact with our products. There is a risk that our product candidates may induce adverse events. For example, in October 2020, we were notified that a patient treated with Strimvelis under a compassionate use program in 2016 had been diagnosed with leukemia. Subsequent findings confirmed that the patient's leukemia was due to insertional oncogenesis attributable to treatment with Strimvelis, though the CHMP concluded that the risk-benefit balance remains favorable. If we cannot successfully defend against product liability claims, including any claims related to treatment with Strimvelis, we could incur substantial liability and costs. In addition, regardless of merit or eventual outcome, product liability claims may result in:

- the impairment of our business reputation;
- the withdrawal of clinical trial participants;
- costs due to related litigation;
- the distraction of management's attention from our primary business;
- substantial monetary awards to patients or other claimants;
- the inability to commercialize our product candidates; and
- decreased demand for our product candidates, if approved for commercial sale.

We believe our product liability insurance coverage is sufficient in light of our current commercial and clinical programs; however, we may not be able to maintain insurance coverage at a reasonable cost or in sufficient amounts to protect us against losses due to liability. We intend to expand our insurance coverage each time we commercialize an additional product, but we may be unable to obtain product liability insurance on commercially reasonable terms or in adequate amounts. On occasion, large judgments have been awarded in class action lawsuits based on drugs or medical treatments that had unanticipated adverse effects. A successful product liability claim or series of claims brought against us could adversely affect our results of operations and business.

Patients with the diseases targeted by certain of our product candidates are often already in severe and advanced stages of disease and have both known and unknown significant pre-existing and potentially life-threatening health risks. During the course of treatment, patients may suffer adverse events, including death, for reasons that may be related to our product candidates. Such events could subject us to costly litigation, require us to pay substantial amounts of money to injured patients, delay, negatively impact or end our opportunity to receive or maintain regulatory approval to market our products, or require us to suspend or abandon our commercialization efforts. Even in a circumstance in which we do not believe that an adverse event is related to our products, the investigation into the circumstance may be time-consuming or inconclusive. These investigations may interrupt our sales efforts, delay our regulatory approval process in other countries, or impact and limit the type of regulatory approvals our product candidates receive or maintain. As a result of these factors, a product liability claim, even if successfully defended, could have a material adverse effect on our business, financial condition or results of operations.

***An information security incident, including a cybersecurity breach, could have a negative impact to the Company's business or reputation.***

Security incidents have become more prevalent across industries and may occur on our systems or on the systems of our third party service providers. These security incidents may be caused by, or result in, security breaches, computer malware or malicious software, ransomware, computer hacking, denial of service attacks, security system control failures in our own systems or from service providers we use, email phishing, software vulnerabilities, social engineering, sabotage, drive-by downloads and the malfeasance of our or our service providers' employees, among other things. We have taken a number of measures to detect, effectively remediate and prevent future attacks and security threats; however, because of the frequently changing attack techniques, along with the increased volume and sophistication of the attacks, there is the potential for the Company to be adversely impacted.

Despite our security measures, our internal computer systems and those of our current and any future collaborators and other contractors or consultants are vulnerable to, among other things, damage from computer viruses, unauthorized access, ransomware, natural disasters, terrorism, war and telecommunication and electrical failures. Furthermore, the ongoing COVID-19 pandemic and the related disruptions to our business and our collaborators', contractors' and consultants' businesses may increase the risk of security incidents. If any cyberattack or data breach were to occur in the future and cause interruptions in our or our collaborators', contractors' or consultants' operations, it could result in a material disruption of our development programs and our business operations, whether due to a loss of our trade secrets or other proprietary information or other similar disruptions. For example, the loss of clinical trial data from completed or future clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data. To the extent that any disruption or security breach were to result in a loss of, or damage to, our data or applications, or the inappropriate disclosure of confidential or proprietary information, we could incur liability, our competitive position could be harmed and the further development and commercialization of our product candidates could be delayed.

***Our future success depends on our ability to retain key employees, consultants and advisors and to attract, retain and motivate qualified personnel.***

We are highly dependent on principal members of our executive team and key employees, including our Chief Executive Officer and our President & Chief Operating Officer, the loss of whose services may adversely impact the achievement of our objectives. While we have entered into employment agreements with each of our executive officers, any of them could leave our employment at any time. We do not maintain "key person" insurance policies on the lives of these individuals or the lives of any of our other employees. The loss of the services of one or more of our current employees might impede the achievement of our research, development and commercialization objectives.

Recruiting and retaining other qualified employees, consultants and advisors for our business, including scientific and technical personnel, will also be critical to our success. There is currently a shortage of skilled executives in our industry, which is likely to continue. As a result, competition for skilled personnel, including in gene therapy research and vector manufacturing, is intense and the turnover rate can be high. We may not be able to attract and retain personnel on acceptable terms given the competition among numerous pharmaceutical and biotechnology companies for individuals with similar skill sets. In addition, failure to succeed in preclinical or clinical trials may make it more challenging to recruit and retain qualified personnel. The inability to recruit or the loss of the services of any executive, key employee, consultant or advisor may impede the progress of our research, development and commercialization objectives.

***Our corporate restructuring and the associated headcount reduction may not result in anticipated savings, could result in total costs and expenses that are greater than expected and could disrupt our business, and we may experience difficulties in managing our current and any future restructurings.***

In May 2020, we undertook an organizational restructuring that reduced our workforce by approximately 25%, including the closure of our Menlo Park, California office. We also decided to discontinue building out our leased manufacturing facility in Fremont, California, despite having devoted costs and resources to the project, which may not be recouped, and despite incurring wind down costs associated with abandoning the construction. We have recorded \$5.7 million in non-cash impairment charges associated with the Fremont operating lease right-of-use asset, design costs classified as construction-in-process, and laboratory equipment at our Menlo Park facility. In December 2020, we entered into a sublease agreement with an unrelated third-party whereby we subleased the entire Fremont facility to such third party. The sublease is for the entire remaining term of lease.

Future growth would impose significant added responsibilities on members of management, including the need to identify, recruit, maintain and integrate additional employees. Due to our limited resources, we may not be able to effectively manage our operations or recruit and retain qualified personnel, which may result in weaknesses in our infrastructure and operations, risks that we may not be able to comply with legal and regulatory requirements, and loss of employees and reduced productivity among remaining employees. For example, the workforce reduction may negatively impact our clinical, regulatory, technical operations, and commercial functions, which would have a negative impact on our ability to successfully develop, and ultimately, commercialize our product candidates. Our future financial performance and our ability to develop our product candidates or additional assets will depend, in part, on our ability to effectively manage any future growth or restructuring, as the case may be.

***Our employees, principal investigators, consultants and commercial partners may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements and insider trading.***

We are exposed to the risk of fraud or other misconduct by our employees, principal investigators, consultants and commercial partners, CROs and CDMOs. It is not always possible to identify and deter misconduct by employees and other third parties, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to comply with these laws or regulations. Misconduct by these parties could include intentional failures to (i) comply with the regulations of the FDA, EMA or of other foreign regulatory authorities, (ii) provide accurate information to the FDA, EMA and other foreign regulatory authorities, (iii) comply with healthcare fraud and abuse laws and regulations in the United States and abroad, (iv) report financial information or data accurately or (v) disclose unauthorized activities to us. In particular, sales, marketing and business arrangements in the healthcare industry are subject to extensive laws and regulations intended to prevent fraud, misconduct, kickbacks, self-dealing and other abusive practices. These laws and regulations may restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. Such misconduct could also involve the improper use of information obtained in the course of clinical trials, which could result in regulatory sanctions and cause serious harm to our reputation. We have adopted a code of conduct applicable to all of our employees, but it is not always possible to identify and deter employee misconduct, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to comply with these laws or regulations. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business, including the imposition of significant fines or other sanctions such as criminal and administrative penalties, damages, imprisonment, possible exclusion from participation in Medicare, Medicaid and other federal healthcare programs, additional reporting requirements and oversight if we become subject to a corporate integrity agreement or similar agreement to resolve allegations of noncompliance with these laws, contractual damages, reputational harm, diminished profits and future earnings, and curtailment of our operations.

**Healthcare legislative reform measures and constraints on national budget social security systems may have a material adverse effect on our business and results of operations.**

Payors, whether domestic or foreign, or governmental or private, are developing increasingly sophisticated methods of controlling healthcare costs and those methods are not always specifically adapted for new technologies such as gene therapy and therapies addressing rare diseases such as those we are developing. In both the United States and certain foreign jurisdictions, there have been a number of legislative and regulatory changes to the health care system that could impact our ability to sell our products profitably. In particular, in 2010, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act of 2010, or collectively, the ACA, was enacted, which, among other things: (i) subjected biologic products to potential competition by lower-cost biosimilars; (ii) addressed a new methodology by which rebates owed by manufacturers under the Medicaid Drug Rebate Program are calculated for drugs that are inhaled, infused, instilled, implanted or injected; (iii) increased the minimum Medicaid rebates owed by most manufacturers under the Medicaid Drug Rebate Program; (iv) extended the Medicaid Drug Rebate program to utilization of prescriptions of individuals enrolled in Medicaid managed care organizations; (v) subjected manufacturers to new annual fees and taxes for certain branded prescription drugs; (vi) created a new Medicare Part D coverage gap discount program, in which manufacturers must agree to offer 50% (increased to 70% pursuant to the Bipartisan Budget Act of 2018, effective as of January 1, 2019 (the “BBA”)) point-of-sale discounts off negotiated prices of applicable brand drugs to eligible beneficiaries during their coverage gap period, as a condition for the manufacturer’s outpatient drugs to be covered under Medicare Part D; and (vii) provided incentives to programs that increase the federal government’s comparative effectiveness research.

Some of the provisions of the ACA have yet to be fully implemented, while certain provisions have been subject to judicial and Congressional challenges. While Congress has not passed comprehensive repeal legislation, two bills affecting the implementation of certain taxes under the ACA have been signed into law. First, the Tax Cuts and Jobs Act of 2017, or the Tax Act, decreased the tax-based shared responsibility payment imposed by the ACA on certain individuals who fail to maintain qualifying health coverage for all or part of a year, commonly referred to as the “individual mandate,” to \$0, effective January 1, 2019. Second, the BBA repealed the so-called “Cadillac” tax on certain high-cost employer-sponsored insurance plans, the annual fee imposed on certain health insurance providers, and the medical device excise tax on non-exempt medical devices. The BBA also closed the coverage gap in most Medicare drug plans, commonly referred to as the “donut hole.”

In June 2021, the U.S. Supreme Court, or Supreme Court, dismissed the most recent judicial challenge to the ACA brought by several states without specifically ruling on the constitutionality of the ACA. Prior to the Supreme Court’s decision, President Biden issued an Executive Order to initiate a special enrollment period from February 15, 2021 through August 15, 2021 for purposes of obtaining health insurance coverage through the ACA marketplace. The Executive Order also instructed certain governmental agencies to review and reconsider their existing policies and rules that limit access to healthcare, including among others, reexamining Medicaid demonstration projects and waiver programs that include work requirements, and policies that create unnecessary barriers to obtaining access to health insurance coverage through Medicaid or the ACA.

In June 2018, the U.S. Court of Appeals for the Federal Circuit ruled that the federal government was not required to pay in excess of \$12.0 billion in ACA risk corridor payments to third-party payors. This decision was appealed to the Supreme Court, which in April 2020 reversed the U.S. Court of Appeals and remanded the case, concluding that the government had an obligation to pay these risk corridor payments under the relevant formula. The effects of this gap in reimbursement on third-party payors, the viability of the ACA marketplace, providers, and potentially our business are not yet known.

Prior to the Biden administration, in October 2017, former President Trump signed an Executive Order terminating the cost-sharing subsidies that reimburse insurers under the ACA. The former Trump administration concluded that cost-sharing reduction, or CSR, payments to insurance companies required under the ACA had not received necessary appropriations from Congress and announced that it would discontinue the payments immediately until those appropriations were made. Several state Attorneys General filed suit to stop the administration from terminating the subsidies, but their request for a restraining order was denied by a federal judge in California, also in October 2017. In August 2020, the U.S. Court of Appeals for the Federal Circuit ruled in two separate cases that the federal government is liable for the full amount of unpaid CSRs for the years preceding and including 2017. For CSR claims made by health insurance companies for years 2018 and later, further litigation will be required to determine the amounts due, if any.

Further, in December 2018, CMS published a final rule permitting further collections and payments to and from certain ACA-qualified health plans and health insurance issuers under the ACA risk adjustment program in response to the outcome of federal district court litigation regarding the method CMS uses to determine this risk adjustment. Since then, the ACA risk adjustment program payment parameters have been updated annually. In addition, CMS published a final rule that would give states greater flexibility in setting benchmarks for insurers in the individual and small group marketplaces, which may have the effect of relaxing the essential health benefits required under the ACA for plans sold through such marketplaces.



It is unclear how other healthcare reform measures of the Biden administrations or other efforts, if any, to challenge repeal or replace the ACA, will impact our business.

Other legislative changes potentially affecting our business have been proposed and adopted in the United States since the ACA was enacted. In August 2011, the Budget Control Act of 2011, among other things, created measures for spending reductions by Congress. A Joint Select Committee on Deficit Reduction, tasked with recommending a targeted deficit reduction of at least \$1.5 trillion for the years 2013 through 2021, was unable to reach required goals, thereby triggering the legislation's automatic reduction to several government programs. This included aggregate reductions of Medicare payments to providers of 2% per fiscal year, which went into effect in April 2013 and will remain in effect through 2030 unless additional Congressional action is taken. Pursuant to the CARES Act and subsequent legislation, however, these reductions were suspended from May 2020 through the end of 2021 due to the COVID-19 pandemic.

In January 2013, the American Taxpayer Relief Act of 2012, was signed into law, which, among other things, further reduced Medicare payments to several providers, including hospitals and cancer treatment centers, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years.

Additionally, there has been increasing legislative and enforcement interest in the United States with respect to specialty drug pricing practices. Specifically, there have been several recent U.S. Congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more transparency to drug pricing, reduce the cost of prescription drugs under Medicare, review the relationship between pricing and manufacturer patient programs, and reform government program reimbursement methodologies for drugs. For example, in May 2019, CMS issued a final rule to allow Medicare Advantage Plans the option of using step therapy, a type of prior authorization, for Part B drugs beginning January 1, 2020. In addition, there have been several changes to the 340B drug pricing program, which imposes ceilings on prices that drug manufacturers can charge for medications sold to certain health care facilities. For 2019 and 2018, CMS altered the reimbursement formula on specified covered outpatient drugs, which was challenged in court. In July 2020, the U.S. Court of Appeals for the District of Columbia held that the changes were within CMS's authority. In September 2020, the plaintiffs-appellees filed a Petition for Rehearing En Banc (*i.e.*, before the full court), but this petition was denied. Plaintiffs-appellees filed a petition for a writ of certiorari at the Supreme Court in February 2021, which was granted in July 2021. It is unclear how these developments could affect covered hospitals who might purchase our future products and affect the rates we may charge such facilities for our approved products in the future, if any.

There have been several other actions taken at a federal level seeking to lower drug prices. At a federal level, President Biden signed an Executive Order in July 2021 affirming the administration's policy to (i) support legislative reforms that would lower the prices of prescription drug and biologics, including by allowing Medicare to negotiate drug prices, by imposing inflation caps, and, by supporting the development and market entry of lower-cost generic drugs and biosimilars and (ii) support the enactment of a public health insurance option. Among other things, the Executive Order directs HHS to provide a report on actions to combat excessive pricing of prescription drugs, enhance the domestic drug supply chain, reduce the price that the U.S. federal government pays for drugs, and address price gouging in the industry. The Executive Order also directs the FDA to work with states and Indian Tribes that propose to develop section 804 Importation Programs in accordance with the Medicare Prescription Drug, Improvement, and Modernization Act of 2003, and the FDA's implementing regulations. The FDA released such implementing regulations in September 2020, which went into effect in November 2020, providing guidance for states to build and submit importation plans for drugs from Canada. Further, in November 2020, CMS issued an Interim Final Rule implementing the Most Favored Nation, or MFN, Model under which Medicare Part B reimbursement rates will be calculated for certain drugs and biologics based on the lowest price drug manufacturers receive in Organization for Economic Cooperation and Development countries with a similar gross domestic product per capita. The MFN Model regulations mandate participation by identified Part B providers and would have applied to all U.S. states and territories for a seven-year period beginning January 1, 2021 and ending December 31, 2027. The MFN Model is currently subject to ongoing litigation. Further, authorities in Canada have passed rules designed to safeguard the Canadian drug supply from shortages. If implemented, importation of drugs from Canada and the MFN Model may materially and adversely affect the price we receive for any of our product candidates. Additionally, in December 2020, HHS published a regulation removing safe harbor protection for price reductions from pharmaceutical manufacturers to plan sponsors under Part D, either directly or through pharmacy benefit managers, unless the price reduction is required by law. The rule also creates a new safe harbor for price reductions reflected at the point-of-sale, as well as a safe harbor for certain fixed fee arrangements between pharmacy benefit managers and manufacturers. Further, implementation of this change and new safe harbors for point-of-sale reductions in price for prescription pharmaceutical products and pharmacy benefit manager service fees are currently under review by the Biden administration and may be amended or repealed. Although a number of these and other proposed measures may require authorization through additional legislation to become effective, and the Biden administration may reverse or otherwise change these measures, both the Biden administration and Congress have indicated that it will continue to seek new legislative measures to control drug costs.

At the state level, legislatures are increasingly passing legislation and implementing regulations designed to control pharmaceutical and biological product pricing, including price or patient reimbursement constraints, discounts, or restrictions on certain product access, and marketing cost disclosure and transparency measures, which, in some cases, are designed to encourage importation from other countries and bulk purchasing.

There have been, and likely will continue to be, legislative and regulatory proposals at the foreign, federal and state levels directed at broadening the availability of healthcare and containing or lowering the cost of healthcare. We cannot predict the initiatives that may be adopted in the future. The continuing efforts of the government, insurance companies, managed care organizations and other payors of healthcare services to contain or reduce costs of healthcare and/or impose price controls may adversely affect:

- the demand for our product candidates, if we obtain regulatory approval;
- our ability to set a price that we believe is fair for our products;
- our ability to generate revenue and achieve or maintain profitability;
- the level of taxes that we are required to pay; and
- the availability of capital.

Any denial in coverage or reduction in reimbursement from Medicare or other government programs may result in a similar denial or reduction in payments from private payors, which may adversely affect our future profitability.

***We are subject to the UK Bribery Act 2010, or the Bribery Act, the U.S. Foreign Corrupt Practices Act of 1977, as amended, or the FCPA, and other anti-corruption laws, as well as export control laws, import and customs laws, trade and economic sanctions laws and other laws governing our operations.***

Our operations are subject to anti-corruption laws, including the Bribery Act, the FCPA, the U.S. domestic bribery statute contained in 18 U.S.C. §201, the U.S. Travel Act, and other anti-corruption laws that apply in countries where we do business. The Bribery Act, the FCPA and these other laws generally prohibit us and our employees and intermediaries from authorizing, promising, offering, or providing, directly or indirectly, improper or prohibited payments, or anything else of value, to government officials or other persons to obtain or retain business or gain some other business advantage. Under the Bribery Act, we may also be liable for failing to prevent a person associated with us from committing a bribery offense. We and our commercial partners operate in a number of jurisdictions that pose a high risk of potential Bribery Act or FCPA violations, and we participate in collaborations and relationships with third parties whose corrupt or illegal activities could potentially subject us to liability under the Bribery Act, FCPA or local anti-corruption laws, even if we do not explicitly authorize or have actual knowledge of such activities. In addition, we cannot predict the nature, scope or effect of future regulatory requirements to which our international operations might be subject or the manner in which existing laws might be administered or interpreted.

We are also subject to other laws and regulations governing our international operations, including regulations administered by the governments of the United Kingdom and the United States, and authorities in the European Union, including applicable export control regulations, economic sanctions and embargoes on certain countries and persons, anti-money laundering laws, import and customs requirements and currency exchange regulations, collectively referred to as the Trade Control laws.

There is no assurance that we will be completely effective in ensuring our compliance with all applicable anti-corruption laws, including the Bribery Act, the FCPA or other legal requirements, including Trade Control laws. If we are not in compliance with the Bribery Act, the FCPA and other anti-corruption laws or Trade Control laws, we may be subject to criminal and civil penalties, disgorgement and other sanctions and remedial measures, and legal expenses, which could have an adverse impact on our business, financial condition, results of operations and liquidity. Likewise, any investigation of any potential violations of the Bribery Act, the FCPA, other anti-corruption laws or Trade Control laws by United Kingdom, United States or other authorities could also have an adverse impact on our reputation, our business, results of operations and financial condition.

***We may be subject, directly or indirectly, to federal and state healthcare fraud and abuse laws, false claims laws health information privacy and security laws, and other health care laws and regulations. If we are unable to comply, or have not fully complied, with such laws, we could face substantial penalties.***

If we obtain FDA approval for any of our product candidates and begin commercializing those products in the United States, our operations will be directly, or indirectly through our prescribers, customers and purchasers, subject to various federal and state fraud and abuse laws and regulations, including, without limitation, the federal Health Care Program Anti-Kickback Statute, the federal civil and criminal False Claims Act and Physician Payments Sunshine Act and regulations. These laws will impact, among other things, our proposed sales, marketing and educational programs. In addition, we may be subject to patient privacy laws by both the federal

government and the states in which we conduct our business. The laws that will affect our operations include, but are not limited to, the below:

- The federal Anti-Kickback Statute, which prohibits, among other things, persons or entities from knowingly and willfully soliciting, receiving, offering or paying any remuneration (including any kickback, bribe or rebate), directly or indirectly, overtly or covertly, in cash or in kind, to induce, or in return for, the purchase, lease, order, arrangement, or recommendation of any good, facility, item or service for which payment may be made, in whole or in part, under a federal healthcare program, such as the Medicare and Medicaid programs. A person or entity does not need to have actual knowledge of the federal Anti-Kickback Statute or specific intent to violate it to have committed a violation. Violations are subject to civil and criminal fines and penalties for each violation, plus up to three times the remuneration involved, imprisonment, and exclusion from government healthcare programs. In addition, the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the federal False Claims Act or federal civil money penalties.
- The federal civil and criminal false claims laws and civil monetary penalty laws, such as the federal False Claims Act, which impose criminal and civil penalties and authorize civil whistleblower or qui tam actions, against individuals or entities for, among other things: knowingly presenting, or causing to be presented, to the federal government, claims for payment that are false or fraudulent; knowingly making, using or causing to be made or used, a false statement of record material to a false or fraudulent claim or obligation to pay or transmit money or property to the federal government or knowingly concealing or knowingly and improperly avoiding or decreasing an obligation to pay money to the federal government. Manufacturers can be held liable under the federal False Claims Act even when they do not submit claims directly to government payors if they are deemed to “cause” the submission of false or fraudulent claims. The federal False Claims Act also permits a private individual acting as a “whistleblower” to bring actions on behalf of the federal government alleging violations of the federal False Claims Act and to share in any monetary recovery.
- The anti-inducement law, which prohibits, among other things, the offering or giving of remuneration, which includes, without limitation, any transfer of items or services for free or for less than fair market value (with limited exceptions), to a Medicare or Medicaid beneficiary that the person knows or should know is likely to influence the beneficiary’s selection of a particular supplier of items or services reimbursable by a federal or state governmental program.
- The federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, which created new federal criminal statutes that prohibit a person from knowingly and willfully executing, or attempting to execute, a scheme to defraud any healthcare benefit program or obtain, by means of false or fraudulent pretenses, representations or promises, any of the money or property owned by, or under the custody or control of, any healthcare benefit program, regardless of the payor (*e.g.*, public or private) and knowingly and willfully falsifying, concealing or covering up by any trick or device a material fact or making any materially false, fictitious, or fraudulent statements or representations in connection with the delivery of, or payment for, healthcare benefits, items or services relating to healthcare matters; similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation.
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, or HITECH and their respective implementing regulations, including the Final Omnibus Rule published in January 2013, which impose requirements on certain covered healthcare providers, health plans, and healthcare clearinghouses as well as their respective business associates, independent contractors or agents of covered entities, that perform services for them that involve the creation, maintenance, receipt, use, or disclosure of, individually identifiable health information relating to the privacy, security and transmission of individually identifiable health information. HITECH also created new tiers of civil monetary penalties, amended HIPAA to make civil and criminal penalties directly applicable to business associates, and gave state attorneys general new authority to file civil actions for damages or injunctions in federal courts to enforce the federal HIPAA laws and seek attorneys’ fees and costs associated with pursuing federal civil actions. In addition, there may be additional federal, state and non-U.S. laws which govern the privacy and security of health and other personal information in certain circumstances, many of which differ from each other in significant ways and may not have the same effect, thus complicating compliance efforts.
- The U.S. federal transparency requirements under the ACA, including the provision commonly referred to as the Physician Payments Sunshine Act, and its implementing regulations, which requires applicable manufacturers of drugs, devices, biologics and medical supplies for which payment is available under Medicare, Medicaid or the Children’s Health Insurance Program to report annually to CMS, information related to payments or other transfers of value made to physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors) and teaching hospitals, as well as ownership and investment interests held by the physicians described above and their immediate family members. Effective January 1, 2022, these reporting obligations will extend to include transfers of value made to certain non-physician providers such as physician assistants and nurse practitioners.
- The federal government price reporting laws, which require us to calculate and report complex pricing metrics in an accurate and timely manner to government programs.

- The federal consumer protection and unfair competition laws, which broadly regulate marketplace activities and activities that potentially harm consumers.
- Many states in the United States have enacted laws that regulate the privacy and/or security of certain types of personal information. For example, in California the California Consumer Protection Act (CCPA), which went into effect on January 1, 2020, establishes a new privacy framework for covered businesses by creating an expanded definition of personal information, establishing new data privacy rights for consumers in the State of California, imposing special rules on the collection of consumer data from minors, and creating a new and potentially severe statutory damages framework for violations of the CCPA and for businesses that fail to implement reasonable security procedures and practices to prevent data breaches. After a delay, the CCPA became subject to enforcement as of July 1, 2020. Although clinical trial data and protected health information subject to HIPAA are currently exempt from CCPA, we may be subject to the CCPA with respect to other personal information regarding California residents. The CCPA provides for civil penalties for violations, as well as a private right of action for data breaches that is expected to increase data breach litigation. The CCPA may increase our compliance costs and potential liability. Some observers have noted that the CCPA could mark the beginning of a trend toward more stringent privacy legislation in the U.S., which could increase our potential liability and adversely affect our business.
- Additionally, a new California ballot initiative, the California Privacy Rights Act, or “CPRA,” was passed in November 2020. Effective starting on January 1, 2023, the CPRA imposes additional obligations on companies covered by the legislation and will significantly modify the CCPA, including by expanding consumers’ rights with respect to certain sensitive personal information. The CPRA also creates a new state agency that will be vested with authority to implement and enforce the CCPA and the CPRA. The effects of the CCPA and the CPRA are potentially significant and may require us to modify our data collection or processing practices and policies and to incur substantial costs and expenses in an effort to comply and increase our potential exposure to regulatory enforcement and/or litigation.
- Certain other state laws impose similar privacy obligations, and we also expect anticipate that more states to may enact legislation similar to the CCPA, which provides consumers with new privacy rights and increases the privacy and security obligations of entities handling certain personal information of such consumers. The CCPA has prompted a number of proposals for new federal and state-level privacy legislation. Such proposed legislation, if enacted, may add additional complexity, variation in requirements, restrictions and potential legal risk, require additional investment of resources in compliance programs, impact strategies and the availability of previously useful data and could result in increased compliance costs and/or changes in business practices and policies.

Following the UK’s withdrawal from the EU on January 31, 2020 and the end of the transitional arrangements agreed between the UK and EU, as of January 1, 2021, the GDPR has been incorporated into UK domestic law by virtue of section 3 of the European Union (Withdrawal) Act 2018 and amended by the Data Protection, Privacy and Electronic Communications (Amendments etc.) (EU Exit) Regulations 2019. UK-based organizations doing business in the EU will need to continue to comply with the EU General Data Protection Regulation (“GDPR”). The UK is now regarded as a third country under GDPR, but the European Commission has issued a decision recognizing the UK as providing adequate protection under GDPR. Therefore, transfers of personal data originating in the EU to the UK remain unrestricted. Additionally, we are subject to state and foreign equivalents of each of the healthcare laws and regulations described above, among others, some of which may be broader in scope and may apply regardless of the payor. Many U.S. states have adopted laws similar to the federal Anti-Kickback Statute and False Claims Act and may apply to our business practices, including, but not limited to, research, distribution, sales or marketing arrangements and claims involving healthcare items or services reimbursed by non-governmental payors, including private insurers. In addition, some states have passed laws that require pharmaceutical companies to comply with the April 2003 Office of Inspector General Compliance Program Guidance for Pharmaceutical Manufacturers and/or the Pharmaceutical Research and Manufacturers of America’s Code on Interactions with Healthcare Professionals. Several states also impose other marketing restrictions or require pharmaceutical companies to make marketing or price disclosures to the state and require the registration of pharmaceutical sales representatives. State and foreign laws, including for example the GDPR, which became effective May 2018 also govern the privacy and security of health information in some circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts. There are ambiguities as to what is required to comply with these state requirements, and if we fail to comply with an applicable state law requirement we could be subject to penalties. Finally, there are state and foreign laws governing the privacy and security of health information, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts.

In the event we decide to conduct clinical trials or continue to enroll subjects in our ongoing or future clinical trials, we may be subject to additional privacy restrictions. The collection, use, storage, disclosure, transfer, or other processing of personal data regarding individuals in the European Economic Area, including personal health data, is subject to the GDPR. The GDPR is wide-ranging in scope and imposes numerous requirements on companies that process personal data, including requirements relating to processing health and other sensitive data, obtaining consent of the individuals to whom the personal data relates, providing information to individuals regarding data processing activities, implementing safeguards to protect the security and confidentiality of personal data, providing notification of data breaches, and taking certain measures when engaging third-party processors. The GDPR also imposes strict rules on the transfer of personal data to countries outside the European Economic Area, including the United States, and permits data protection authorities to impose large penalties for violations of the GDPR, including potential fines of up to €20.0 million or 4% of annual global revenues, whichever is greater. The GDPR also confers a private right of action on data subjects and consumer associations to lodge complaints with supervisory authorities, seek judicial remedies, and obtain compensation for damages resulting from violations of the GDPR. In addition, the GDPR includes restrictions on cross-border data transfers. The GDPR may increase our responsibility and liability in relation to personal data that we process where such processing is subject to the GDPR, and we may be required to put in place additional mechanisms to ensure compliance with the GDPR, including as implemented by individual countries. Compliance with the GDPR will be a rigorous and time-intensive process that may increase our cost of doing business or require us to change our business practices, and despite those efforts, there is a risk that we may be subject to fines and penalties, litigation, and reputational harm in connection with our European activities. In addition, further to the United Kingdom's exit from the EU ("Brexit") on January 31, 2020 and the expiry of the subsequent transition period on December 31, 2020, the GDPR has been brought into UK law as the "UK GDPR." The UK is now regarded as a third country under GDPR, but the European Commission has issued a decision recognizing the UK as providing adequate protection under GDPR. Therefore, transfers of personal data originating in the EU to the UK remain unrestricted. Like the GDPR, the UK GDPR restricts personal data transfers outside the UK to countries not regarded by the UK as providing adequate protection (this means that personal data transfers from the UK to the EEA remain free flowing).

Because of the breadth of these laws and the narrowness of the statutory exceptions and safe harbors available, it is possible that some of our business activities could be subject to challenge and may not comply under one or more of such laws, regulations, and guidance. Law enforcement authorities are increasingly focused on enforcing fraud and abuse laws, and it is possible that some of our practices may be challenged under these laws. Efforts to ensure that our current and future business arrangements with third parties, and our business generally, will comply with applicable healthcare laws and regulations will involve substantial costs. If our operations, including our arrangements with physicians and other healthcare providers, some of whom receive share options as compensation for services provided, are found to be in violation of any of such laws or any other governmental regulations that apply to us, we may be subject to penalties, including, without limitation, administrative, civil and criminal penalties, damages, fines, disgorgement, contractual damages, reputational harm, diminished profits and future earnings, the curtailment or restructuring of our operations, exclusion from participation in federal and state healthcare programs (such as Medicare and Medicaid), and imprisonment, as well as additional reporting obligations and oversight if we become subject to a corporate integrity agreement or other agreement to resolve allegations of non-compliance with these laws, any of which could adversely affect our ability to operate our business and our financial results.

***If we or our CDMOs and CROs fail to comply with environmental, health and safety laws and regulations, we could become subject to fines or penalties or incur costs that could have a material adverse effect on the success of our business.***

We and third parties such as our CDMOs and CROs are subject to numerous environmental, health and safety laws and regulations, including those governing laboratory procedures and the handling, use, storage, treatment and disposal of hazardous materials and wastes. Our operations involve the use of hazardous and flammable materials, including chemicals and biological materials. Our operations also produce hazardous waste products. We generally contract with third parties for the disposal of these materials and wastes. We cannot eliminate the risk of contamination or injury from these materials. In the event of contamination or injury resulting from our use of hazardous materials, we could be held liable for any resulting damages, and any liability could exceed our resources. We also could incur significant costs associated with civil or criminal fines and penalties. Furthermore, environmental laws and regulations are complex, change frequently and have tended to become more stringent. We cannot predict the impact of such changes and cannot be certain of our future compliance. In addition, we may incur substantial costs in order to comply with current or future environmental, health and safety laws and regulations. These current or future laws and regulations may impair our research, development or production efforts. Failure to comply with these laws and regulations also may result in substantial fines, penalties or other sanctions.

Although we maintain workers' compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees resulting from the use of hazardous materials or other work-related injuries, this insurance may not provide adequate coverage against potential liabilities. In addition, we may incur substantial costs in order to comply with current or future environmental, health and safety laws and regulations. These current or future laws and regulations may impair our research, development or production efforts. Failure to comply with these laws and regulations also may result in substantial fines, penalties or other sanctions or liabilities, which could materially adversely affect our business, financial condition, results of operations and prospects.

***As a company based outside of the United States, our business is subject to economic, political, regulatory and other risks associated with international operations.***

As a company based partly in the United Kingdom and EU countries, our business is subject to risks associated with conducting business outside of the United States. Many of our suppliers and clinical trial relationships are located outside the United States. Accordingly, our future results could be harmed by a variety of factors, including:

- economic weakness, including inflation, or political instability in the United Kingdom and other non-U.S. economies and markets, including the substantial economic dislocation that has occurred and is likely to persist as a result of the impact of the COVID-19 global pandemic;
- differing and changing regulatory requirements for product approvals;
- differing jurisdictions could present different issues for securing, maintaining or obtaining freedom to operate in such jurisdictions;
- potentially reduced protection for intellectual property rights;
- difficulties in compliance with different, complex and changing laws, regulations and court systems of multiple jurisdictions and compliance with a wide variety of foreign laws, treaties and regulations;
- changes in non-U.S. regulations and customs, tariffs and trade barriers;
- changes in non-U.S. currency exchange rates of the pound sterling, U.S. Dollar, euro and currency controls;
- changes in a specific country's or region's political or economic environment, including the implications of the recent decision of the eligible members of the UK electorate for the United Kingdom to withdraw from the European Union;
- trade protection measures, import or export licensing requirements or other restrictive actions by governments;
- differing reimbursement regimes and price controls in certain non-U.S. markets;
- negative consequences from changes in tax laws or practice;
- compliance with tax, employment, immigration and labor laws for employees living or traveling abroad, including, for example, the variable tax treatment in different jurisdictions of options granted under our share option schemes or equity incentive plans;
- workforce uncertainty in countries where labor unrest is more common than in the United States;
- litigation or administrative actions resulting from claims against us by current or former employees or consultants individually or as part of class actions, including claims of wrongful terminations, discrimination, misclassification or other violations of labor law or other alleged conduct;
- difficulties associated with staffing and managing international operations, including differing labor relations;
- production shortages resulting from any events affecting raw material supply or manufacturing capabilities abroad; and
- business interruptions resulting from geo-political actions, including war and terrorism, or natural disasters including earthquakes, typhoons, floods, fires and public health epidemics and pandemics, including the current COVID-19 global pandemic.

## Risks related to our intellectual property

*We may become subject to claims that we are infringing certain third-party patents, for example, patents relating to lentiviral vectors, or other third-party intellectual property rights, any of which may prevent or delay our development and commercialization efforts and have a material adverse effect on our business.*

Our commercial success depends in part on avoiding infringing, misappropriating and otherwise violating the patents and other intellectual property and proprietary rights of third parties. There is a substantial amount of litigation, both within and outside the United States, involving patent and other intellectual property rights in the biotechnology and pharmaceutical industries, including patent infringement lawsuits, and administrative proceedings such as interferences, *inter partes* review and post grant review proceedings before the U.S. Patent and Trademark Office, or USPTO, and opposition proceedings before foreign patent offices. Numerous U.S. and foreign issued patents and pending patent applications, which are owned or controlled by third parties, including our competitors, exist in the fields in which we are pursuing products and product candidates. As the biotechnology and pharmaceutical industries expand and more patents are issued, the risk increases that our products and product candidates may be subject to claims of infringement of the patent rights of third parties.

Third parties may assert that we or our licensors are employing their proprietary technology without authorization. There may be third party patents or patent applications with claims to materials, formulations, methods of manufacture or methods for treatment relating to our products and product candidates and, because patent applications can take many years to issue, there may be currently pending third party patent applications which may later result in issued patents, in each case that our products and product candidates, their manufacture or use may infringe or be alleged to infringe.

Parties making patent infringement claims against us may obtain injunctive or other equitable relief, which could effectively block our ability to further develop and commercialize one or more of our products or product candidates. Defense of these claims, including demonstrating non-infringement, invalidity or unenforceability of the respective patent rights in question, regardless of their merit, is time-consuming, would involve substantial litigation expense and would be a substantial diversion of employee resources from our business. For example, in order to successfully challenge the validity of any U.S. patent in federal court, we would need to overcome a presumption of validity. This is a high burden requiring us to present clear and convincing evidence as to the invalidity of any such U.S. patent claim, and we can provide no assurance that a court of competent jurisdiction would invalidate the claims of any such U.S. patent. We may not have sufficient resources to bring these actions to a successful conclusion. There could also be public announcements of the results of hearings, motions or other interim proceedings or developments.

In the event that a holder of any such patents seeks to enforce its patent rights against us with respect to one or more of our products or product candidates, and our defenses against the infringement of such patent rights are unsuccessful, we may be precluded from commercializing such products and product candidates, even if approved, without first obtaining a license to some or all of these patents, which may not be available on commercially reasonable terms or at all. Moreover, we may be required to pay significant fees and royalties to secure a license to the applicable patents. Such a license may only be non-exclusive, in which case our ability to stop others from using or commercializing technology and products similar or identical to ours may be limited. Furthermore, we could be liable for damages to the holders of these patents, which may be significant and could include treble damages if we are found to have willfully infringed such patents. In the event that a challenge to these patents were to be unsuccessful or we were to become subject to litigation or unable to obtain a license on commercially reasonable terms with respect to these patents, it could harm our business, financial condition, results of operations and prospects.

We are aware of third-party issued patents and patent applications relating to the lentiviral vectors used in the manufacture or use of one or more our product candidates and/or relating to one or more of our product candidates. If these patent rights were enforced against us, we believe that we have defenses against any such action, including that these patents would not be infringed by our product candidates and/or that these patents are not valid. However, if these patents were enforced against us and defenses to such enforcement were unsuccessful, unless we obtain a license to these patents, which may not be available on commercially reasonable terms, or at all, we could be liable for damages and precluded from commercializing any products and product candidates that were ultimately held to infringe these patents, which could have a material adverse effect on our business, financial condition, results of operations and prospects.

Even in the absence of a finding of infringement, we may need to obtain licenses from third parties to advance our research or allow commercialization of our products and product candidates. We may fail to obtain any of these licenses at a reasonable cost or on reasonable terms, or at all. In that event, we would be unable to further develop and commercialize our products and product candidates. Claims that we have misappropriated the confidential information or trade secrets of third parties could have a similar negative impact on our business. Any of the foregoing could materially adversely affect our business, results of operations and financial condition.

In addition, our trade secrets may otherwise become known or be independently discovered by competitors. Competitors and other third parties could purchase our products and product candidates and attempt to replicate some or all of the competitive advantages we derive from our development efforts, willfully infringe, misappropriate or otherwise violate our intellectual property rights, design around our protected technology or develop their own competitive technologies that fall outside of our intellectual property rights. If any of our trade secrets were to be lawfully obtained or independently developed by a competitor or other third party, we would have no right to prevent them, or those to whom they communicate it, from using that technology or information to compete with us. If our trade secrets are not adequately protected or sufficient to provide an advantage over our competitors, our competitive position could be adversely affected, as could our business. Additionally, if the steps taken to maintain our trade secrets are deemed inadequate, we may have insufficient recourse against third parties for misappropriating our trade secrets.

***We are highly dependent on intellectual property and data licensed from third parties to develop and commercialize our products and product candidates, and our development and commercialization abilities are subject, in part, to the terms and conditions of licenses granted to us by such third parties.***

We are highly dependent on the intellectual property and data licensed to us by third parties that are important or necessary to the development of our technology and products and product candidates, including technology related to the manufacture and use of our products and product candidates. In particular, we do not own any patents or patent applications and have not in-licensed any issued patents related to Strimvelis, Libmeldy or any of our lead product candidates. We have in-licensed certain know-how and data from GSK and Telethon-OSR, relating to Strimvelis, OTL-103 for WAS, Libmeldy, and OTL-300 for TDT, certain know-how and data from Telethon-OSR relating to OTL-203 for MPS-IH, and certain other intellectual property for our clinical and preclinical programs. Any termination of these license rights could result in the loss of significant rights and could harm or prevent our ability to commercialize our products and product candidates.

Although our license rights from The Regents of the University of California, University College London, GSK, and Telethon-OSR, are exclusive, they are limited to particular fields, such as ADA-SCID, MLD, WAS or TDT, and are subject to certain retained rights. Absent an amendment or additional agreement, we may not have the right to use the in-licensed intellectual property, data, or know-how for one of our programs in another program. Furthermore, the licenses (including sublicenses) that we have or may enter into in the future may not provide rights to use such intellectual property and technology in all relevant fields of use and in all territories in which we may wish to develop or commercialize our technology, products and product candidates. As a result, we may not be free to commercialize certain of our products or product candidates in fields or territories of interest to us. Furthermore, if the licenses are not exclusive in territories of interest to us, we may be unable to prevent competitors from developing and commercializing competitive products in territories included in our licenses. Licenses (including sublicenses) to additional third-party technology that may be required for our development programs may not be available in the future or may not be available on commercially reasonable terms, or at all, which could have a material adverse effect on our business.

In some circumstances, we may not have the right to control the preparation, filing and prosecution of patent applications, or to maintain the patents, covering technology that we license from third parties. Therefore, we cannot be certain that these patents and applications will be prosecuted, maintained and enforced in a manner consistent with the best interests of our business. If our licensors fail to maintain such patents, or lose rights to those patents or patent applications, the rights we have licensed may be reduced or eliminated and our right to develop and commercialize any of our products and product candidates that are the subject of such licensed rights could be adversely affected.

Our current license agreements impose, and we expect that future license agreements that we may enter into will impose, various obligations, including diligence and certain payment obligations. If we fail to satisfy our obligations, the particular licensor may have the right to terminate such agreements. Disputes may arise between us and any of our licensors regarding intellectual property subject to such agreements and other issues. Such disputes over intellectual property that we have licensed or the terms of our license agreements may prevent or impair our ability to maintain our current arrangements on acceptable terms, or at all, or may impair the value of the arrangement to us. Any such dispute could have a material adverse effect on our business. If we cannot maintain a necessary license agreement or if the agreement is terminated, we may be unable to successfully develop and commercialize the affected products and product candidates. Termination of our license agreements or reduction or elimination of our rights under them may result in our having to negotiate a new or reinstated agreement, which may not be available to us on equally favorable terms, or at all, which may mean we are unable to develop or commercialize the affected product or product candidate or cause us to lose our rights under the agreement. Any of the foregoing could have a material adverse effect on our business.



***If we are unable to obtain and maintain patent and other intellectual property protection for our products and product candidates, or if the scope of the patent and other intellectual property protection obtained is not sufficiently broad, our competitors could develop and commercialize products similar or identical to ours, and our ability to successfully commercialize our products and product candidates may be adversely affected.***

Our ability to compete effectively will depend, in part, on our ability to maintain the proprietary nature of our technology and manufacturing processes. We rely on manufacturing and other know-how, patents, trade secrets, license agreements and contractual provisions to establish our intellectual property rights and protect our products and product candidates. These legal means, however, afford only limited protection and may not adequately protect our rights. We currently do not own any patents or patent applications and have not in-licensed any issued patents related to Strimvelis, Libmeldy or OTL-103. Many of our products and product candidates are in-licensed from third parties. Accordingly, in some cases, the availability and scope of potential patent protection is limited based on prior decisions by our licensors or the inventors, such as decisions on when to file patent applications or whether to file patent applications at all. Our or our licensors' failure to obtain, maintain, enforce or defend such intellectual property rights, for any reason, could allow third parties, in particular, other established and better-financed gene therapy companies having established development, manufacturing and distribution capabilities, to make competing products or impact our ability to develop, manufacture and market our products and product candidates, even if approved, on a commercially viable basis, if at all, which could have a material adverse effect on our business.

In particular, we rely primarily on trade secrets, know-how and other unpatented technology, which are difficult to protect. Although we seek such protection in part by entering into confidentiality agreements with our vendors, employees, consultants and others who may have access to proprietary information, we cannot be certain that these agreements will not be breached, adequate remedies for any breach would be available, or our trade secrets, know-how and other unpatented proprietary technology will not otherwise become known to or be independently developed by our competitors. If we are unsuccessful in protecting our intellectual property rights, sales of our products may suffer and our ability to generate revenue could be severely impacted.

We currently do not own any issued patents related to Strimvelis, Libmeldy or our lead product candidates. Certain intellectual property related to Strimvelis, Libmeldy and all of our product candidates are in-licensed from third parties, but we have not in-licensed any issued patents related to Strimvelis, Libmeldy or any of our product candidates. In certain situations and as considered appropriate, we and our licensors have sought, and we intend to continue to seek to protect our proprietary position by filing patent applications in the United States and, in at least some cases, one or more countries outside the United States relating to current and future products and product candidates that are important to our business. However, we cannot predict whether the patent applications currently being pursued will issue as patents, whether the claims of any resulting patents will provide us with a competitive advantage or prevent competitors from designing around our claims to develop competing technologies in a non-infringing manner, or whether we will be able to successfully pursue patent applications in the future relating to our current or future products and product candidates. Moreover, the patent application and approval process is expensive and time-consuming. We may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. Furthermore, we, or any future partners, collaborators, or licensees, may fail to identify patentable aspects of inventions made in the course of development and commercialization activities before it is too late to obtain patent protection on them. Therefore, we may miss potential opportunities to seek additional patent protection.

It is possible that defects of form in the preparation or filing of patent applications may exist, or may arise in the future, for example with respect to proper priority claims, inventorship, claim scope, or requests for patent term adjustments. If we fail to establish, maintain or protect such patents and other intellectual property rights, such rights may be reduced or eliminated. If there are material defects in the form, preparation, prosecution or enforcement of our patents or patent applications, such patents may be invalid and/or unenforceable, and such applications may never result in valid, enforceable patents. Any of these outcomes could impair our ability to prevent competition from third parties, which may have an adverse impact on our business.

Other parties, many of whom have substantially greater resources and have made significant investments in competing technologies, have developed or may develop technologies that may be related or competitive with our approach, and may have filed or may file patent applications and may have been issued or may be issued patents with claims that overlap or conflict with our patent applications, either by claiming the same compositions, formulations or methods or by claiming subject matter that could dominate our patent position. In addition, the laws of foreign countries may not protect our rights to the same extent as the laws of the United States. As a result, any patents we may obtain in the future may not provide us with adequate and continuing patent protection sufficient to exclude others from commercializing products similar to our products and product candidates.

***We may not be able to protect our intellectual property rights throughout the world.***

Filing, prosecuting, maintaining, defending and enforcing patents on products and product candidates in all countries throughout the world would be prohibitively expensive, and our intellectual property rights in some countries outside the United States could be less extensive than those in the United States. There can be no assurance that we will obtain or maintain patent rights in or outside the United States under any future license agreements. In addition, the laws of some foreign countries do not protect intellectual property

rights to the same extent as federal and state laws in the United States even in jurisdictions where we and our licensors may pursue patent protection. Consequently, we and our licensors may not be able to prevent third parties from practicing our inventions in all countries outside the United States (even in jurisdictions where we and our licensors pursue patent protection) or from selling or importing products made using our inventions in and into the United States or other jurisdictions. Competitors may use our technologies in jurisdictions where we and our licensors have not pursued and obtained patent protection to develop their own products, and they may export otherwise infringing products to territories where we have patent protection but enforcement is not as strong as that in the United States. These products may compete with our products and product candidates and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing.

Many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents, trade secrets and other intellectual property protection, particularly those relating to biotechnology products, which could make it difficult for us to stop the infringement of our patents or marketing of competing products in violation of our proprietary rights generally. Proceedings to enforce our patent rights, even if obtained, in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing and could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate, and the damages or other remedies awarded, if any, may not be commercially meaningful. Accordingly, our efforts to enforce our intellectual property rights around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop or license.

***Issued patents covering our products and product candidates could be found invalid or unenforceable if challenged in court or in administrative proceedings. We may not be able to protect our trade secrets in court.***

If we or one of our licensing partners initiate legal proceedings against a third party to enforce a patent covering one of our products or product candidates, should such a patent issue, the defendant could counterclaim that the patent covering our product or product candidate is invalid or unenforceable. In patent litigation in the United States, defendant counterclaims alleging invalidity or unenforceability are commonplace. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, including lack of novelty, obviousness, written description or non-enablement. Grounds for an unenforceability assertion could be an allegation that someone connected with prosecution of the patent withheld information material to patentability from the USPTO, or made a misleading statement, during prosecution. Third parties also may raise similar claims before administrative bodies in the United States or abroad, even outside the context of litigation. Such mechanisms include re-examination, post grant review, *inter partes* review and equivalent proceedings in foreign jurisdictions. An adverse determination in any of the foregoing proceedings could result in the revocation or cancellation of, or amendment to, our patents in such a way that they no longer cover our products or product candidates. The outcome following legal assertions of invalidity and unenforceability is unpredictable. With respect to the validity question, for example, we cannot be certain that there is no invalidating prior art, of which the patent examiner and we or our licensing partners were unaware during prosecution. If a defendant or third party were to prevail on a legal assertion of invalidity or unenforceability, we could lose at least part, and perhaps all, of the patent protection on one or more of our products and product candidates. Such a loss of patent protection could have a material adverse impact on our business.

In addition to the protection afforded by patents, we rely on trade secret protection and confidentiality agreements to protect proprietary know-how that is not patentable or that we elect not to patent, processes for which patents are difficult to enforce and any other elements of our product candidate discovery and development processes that involve proprietary know-how, information or technology that is not covered by patents. However, trade secrets can be difficult to protect and some courts inside and outside the United States are less willing or unwilling to protect trade secrets. We seek to protect our proprietary technology and processes, in part, by entering into confidentiality agreements with our employees, consultants, scientific advisors, and contractors. We cannot guarantee that we have entered into such agreements with each party that may have or have had access to our trade secrets or proprietary technology and processes. We also seek to preserve the integrity and confidentiality of our data and trade secrets by maintaining physical security of our premises and physical and electronic security of our information technology systems. While we have confidence in these individuals, organizations and systems, agreements or security measures may be breached, and we may not have adequate remedies for any breach.

***If we do not obtain patent term extension and data exclusivity for our products and product candidates, our business may be materially harmed.***

Patents have a limited lifespan. In the United States, if all maintenance fees are timely paid, the natural expiration of a patent is generally 20 years from its earliest U.S. non-provisional filing date. Various extensions may be available, but the life of a patent, and the protection it affords, is limited. Even if patents covering our products and product candidates are obtained, once the patent life has expired for a product or product candidate, we may be open to competition from competitive products. Given the amount of time required for the development, testing and regulatory review of new product candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. As a result, our owned and licensed patent portfolio may not provide us with sufficient rights to exclude others from commercializing products and product candidates similar or identical to ours.

In the future, if we obtain an issued patent covering one of our present or future product candidates, depending upon the timing, duration and specifics of any FDA marketing approval of such product candidates, such patent may be eligible for limited patent term extension under the Drug Price Competition and Patent Term Restoration Act of 1984, or Hatch-Waxman Amendments. The Hatch-Waxman Amendments permit a patent extension term of up to five years as compensation for patent term lost during the FDA regulatory review process. A patent term extension cannot extend the remaining term of a patent beyond a total of 14 years from the date of product approval, only one patent may be extended and only those claims covering the approved drug, a method for using it or a method for manufacturing it may be extended. A patent may only be extended once and only based on a single approved product. However, we may not be granted an extension because of, for example, failure to obtain a granted patent before approval of a product candidate, failure to exercise due diligence during the testing phase or regulatory review process, failure to apply within applicable deadlines, failure to apply prior to expiration of relevant patents or otherwise our failure to satisfy applicable requirements. Moreover, the applicable time period or the scope of patent protection afforded could be less than we request. If we are unable to obtain patent term extension or the term of any such extension is less than we request, our competitors may obtain approval of competing products following our patent expiration, and our revenue could be reduced, possibly materially. In addition, we do not control the efforts of our licensors to obtain a patent term extension, and there can be no assurance that they will pursue or obtain such extensions to patents that we may license from them.

***Some intellectual property which we have in-licensed may have been discovered through government funded programs and thus may be subject to federal regulations such as “march-in” rights, certain reporting requirements, and a preference for U.S. industry. Compliance with such regulations may limit our exclusive rights, and limit our ability to contract with non-U.S. manufacturers.***

Some of the intellectual property rights we have licensed may have been generated through the use of U.S. government and state funding and may therefore be subject to certain federal and state laws and regulations. As a result, the U.S. government may have certain rights to intellectual property embodied in our current or future products and product candidates pursuant to the Bayh-Dole Act of 1980. These U.S. government rights in certain inventions developed under a government-funded program include a non-exclusive, non-transferable, irrevocable worldwide license to use inventions for any governmental purpose. In addition, the U.S. government has the right to require us to grant exclusive, partially exclusive, or non-exclusive licenses to any of these inventions to a third party if it determines that: (i) adequate steps have not been taken to commercialize the invention; (ii) government action is necessary to meet public health or safety needs; or (iii) government action is necessary to meet requirements for public use under federal regulations (also referred to as “march-in rights”). The U.S. government also has the right to take title to these inventions if we, or the applicable licensor, fail to disclose the invention to the government and fail to file an application to register the intellectual property within specified time limits. Intellectual property generated under a government-funded program is also subject to certain reporting requirements, compliance with which may require us or the applicable licensor to expend substantial resources. In addition, the U.S. government requires that products embodying the subject invention or produced through the use of the subject invention be manufactured substantially in the United States. The manufacturing preference requirement can be waived if the owner of the intellectual property can show that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible. This preference for U.S. manufacturers may limit our ability to contract with non-U.S. product manufacturers for products covered by such intellectual property.

***Intellectual property rights and regulatory exclusivity rights do not necessarily address all potential threats.***

The degree of future protection afforded by our intellectual property rights is uncertain because intellectual property rights have limitations, and they may not adequately protect our business or permit us to maintain our competitive advantage. For example:

- the patents of others may have an adverse effect on our business;
- others, including one or more of our competitors, may reverse engineer or independently develop the know-how or data, including clinical data, that we rely on for a competitive advantage;

- others may be able to make gene therapy products that are similar to our products or product candidates but that are not covered by the claims of the patents that we license or may own or license in the future or by our other intellectual property rights;
- we, our license partners or current or future collaborators, might not have been the first to make the inventions covered by the issued patents or pending patent applications that we license or may own or license in the future;
- we, our license partners or current or future collaborators, might not have been the first to file patent applications covering certain of our or their inventions;
- others may independently develop similar or alternative technologies or duplicate any of our technologies without infringing, misappropriating or otherwise violating our owned or licensed intellectual property rights;
- it is possible that our pending licensed patent applications or those that we may own or license in the future will not lead to issued patents;
- issued patents that we hold rights to or may hold rights to in the future may be held invalid or unenforceable, including as a result of legal challenges by our competitors;
- one or more of our products or product candidates may never be protected by patents;
- our competitors might conduct research and development activities in countries where we do not have patent rights and then use the information learned from such activities to develop competitive products for sale in our major commercial markets;
- we may not develop additional proprietary technologies that are patentable; and
- we or our licensors or collaborators may choose not to file a patent application for certain trade secrets or know-how, and a third party may subsequently file a patent application or obtain a patent covering such intellectual property.

Should any of these events occur, they could significantly harm our business, financial condition, results of operations and prospects.

***We may become involved in lawsuits to protect or enforce our patents, if issued, or other intellectual property, which could be expensive, time consuming and unsuccessful.***

Competitors may infringe, misappropriate or otherwise violate patents, trademarks, copyrights or other intellectual property that we own or in-license. To counter infringement, misappropriation or other unauthorized use, we may be required to file claims, which can be expensive and time consuming and divert the time and attention of our management and scientific personnel. Any claims we assert against perceived violators could provoke these parties to assert counterclaims against us alleging that we infringe, misappropriate or otherwise violate their intellectual property, in addition to counterclaims asserting that our patents are invalid or unenforceable, or both. In any future patent infringement proceeding, there is a risk that a court will decide that a patent of ours is invalid or unenforceable, in whole or in part, and that we do not have the right to stop the other party from using the invention at issue. There is also a risk that, even if the validity of such patents is upheld, the court will construe the patent's claims narrowly or decide that we do not have the right to stop the other party from using the invention at issue on the grounds that our patent claims do not cover the invention. An adverse outcome in a litigation or proceeding involving our patents could limit our ability to assert our patents against those parties or other competitors and may curtail or preclude our ability to exclude third parties from making and selling similar or competitive products. Any of these occurrences could adversely affect our competitive business position, business prospects and financial condition.

Even if we establish infringement, misappropriation or another violation of our intellectual property rights, a court may decide not to grant an injunction against the offender and instead award only monetary damages, which may not be an adequate remedy. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during litigation. There could also be public announcements of the results of hearings, motions or other interim proceedings or developments. If securities analysts or investors perceive these results to be negative, it could have a material adverse effect on the price of shares of our ADSs. Moreover, there can be no assurance that we will have sufficient financial or other resources to file and pursue such claims, which typically last for years before they are concluded. Even if we ultimately prevail in such claims, the monetary cost of such litigation and the diversion of the attention of our management and scientific personnel could outweigh any benefit we receive as a result of the proceedings. Any of the foregoing may have a material adverse effect on our business, financial condition, results of operations and prospects.

***We may be subject to claims asserting that our employees, consultants or advisors have wrongfully used or disclosed alleged trade secrets of their current or former employers or claims asserting ownership of what we regard as our own intellectual property.***

Certain of our employees, consultants or advisors are currently, or were previously, employed at universities or other biotechnology or pharmaceutical companies, including our competitors or potential competitors. Although we try to ensure that our employees, consultants and advisors do not use the proprietary information or know-how of others in their work for us, we may be

subject to claims that these individuals or we have used or disclosed intellectual property, including trade secrets or other proprietary information, of any such individual's current or former employer. Litigation may be necessary to defend against these claims. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management. Our licensors may face similar risks, which could have an adverse impact on intellectual property that is licensed to us.

***We may be subject to claims challenging the inventorship or ownership of the patents and other intellectual property that we own or license.***

We or our licensors may be subject to claims that former employees, collaborators or other third parties have an ownership interest in the patents and intellectual property that we own or license or that we may own or license in the future. While it is our policy to require our employees and contractors who may be involved in the development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who in fact develops intellectual property that we regard as our own or such assignments may not be self-executing or may be breached. Our licensors may face similar obstacles. We could be subject to ownership disputes arising, for example, from conflicting obligations of employees, consultants or others who are involved in developing our products or product candidates. Litigation may be necessary to defend against any claims challenging inventorship or ownership. If we or our licensors fail in defending any such claims, we may have to pay monetary damages and may lose valuable intellectual property rights, such as exclusive ownership of, or right to use, intellectual property, which could adversely impact our business, results of operations and financial condition.

***Changes in patent law in the United States and other jurisdictions could diminish the value of patents in general, thereby impairing our ability to protect our products and product candidates.***

Changes in either the patent laws or the interpretation of the patent laws in the United States or other jurisdictions could increase the uncertainties and costs surrounding the prosecution of patent applications and the enforcement or defense of issued patents. In September 2011, the Leahy-Smith America Invents Act, or the Leahy-Smith Act, was signed into law. When implemented, the Leahy-Smith Act included several significant changes to U.S. patent law that impacted how patent rights could be prosecuted, enforced and defended. In particular, the Leahy-Smith Act also included provisions that switched the United States from a "first-to-invent" system to a "first-to-file" system, allowed third-party submission of prior art to the USPTO during patent prosecution and set forth additional procedures to attack the validity of a patent by the USPTO administered post grant proceedings. Under a first-to-file system, assuming the other requirements for patentability are met, the first inventor to file a patent application generally will be entitled to the patent on an invention regardless of whether another inventor had made the invention earlier. The USPTO developed new regulations and procedures governing the administration of the Leahy-Smith Act, and many of the substantive changes to patent law associated with the Leahy-Smith Act, and in particular, the first to file provisions, only became effective in March 2013. It remains unclear what, if any, impact the Leahy-Smith Act will have on the operation of our business. However, the Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents, all of which could have a material adverse effect on our business.

The patent positions of companies engaged in the development and commercialization of biologics are particularly uncertain. Two cases involving diagnostic method claims and "gene patents" have been decided by the Supreme Court. The Supreme Court issued a decision in *Mayo Collaborative Services v. Prometheus Laboratories, Inc.*, or *Prometheus*, a case involving patent claims directed to a process of measuring a metabolic product in a patient to optimize a drug dosage for the patient. According to the Supreme Court, the addition of well-understood, routine or conventional activity such as "administering" or "determining" steps was not enough to transform an otherwise patent-ineligible natural phenomenon into patent-eligible subject matter. Thereafter, the USPTO issued a guidance memo to patent examiners indicating that process claims directed to a law of nature, a natural phenomenon or a naturally occurring relation or correlation that do not include additional elements or steps that integrate the natural principle into the claimed invention such that the natural principle is practically applied and the claim amounts to significantly more than the natural principle itself should be rejected as directed to not patent-eligible subject matter. Subsequently, the Supreme Court issued its decision in *Association for Molecular Pathology v. Myriad Genetics, Inc.*, or *Myriad*, a case involving patent claims held by Myriad Genetics, Inc. relating to the breast cancer susceptibility genes BRCA1 and BRCA2. *Myriad* held that an isolated segment of naturally occurring DNA, such as the DNA constituting the BRCA1 and BRCA2 genes, is not patent-eligible subject matter, but that complementary DNA, which is an artificial construct that may be created from RNA transcripts of genes, may be patent-eligible. Thereafter, the USPTO issued a guidance memorandum instructing USPTO examiners on the ramifications of the *Prometheus* and *Myriad* rulings and apply the *Myriad* ruling to natural products and principles including all naturally occurring nucleic acids.

Certain claims of our in-licensed patent applications contain, and any future patents we may obtain may contain, claims that relate to specific recombinant DNA sequences that are naturally occurring at least in part and, therefore, could be the subject of future challenges made by third parties.

We cannot assure that our efforts to seek patent protection for one or more of our products and product candidates will not be negatively impacted by the decisions described above, rulings in other cases or changes in guidance or procedures issued by the USPTO. We cannot fully predict what impact the Supreme Court's decisions in *Prometheus* and *Myriad* may have on the ability of life science companies to obtain or enforce patents relating to their products in the future. These decisions, the guidance issued by the USPTO and rulings in other cases or changes in USPTO guidance or procedures could have a material adverse effect on our existing patent rights and our ability to protect and enforce our intellectual property in the future.

Moreover, although the Supreme Court held in *Myriad* that isolated segments of naturally occurring DNA are not patent-eligible subject matter, certain third parties could allege that activities that we may undertake infringe other gene-related patent claims, and we may deem it necessary to defend ourselves against these claims by asserting non-infringement and/or invalidity positions, or paying to obtain a license to these claims. In any of the foregoing or in other situations involving third-party intellectual property rights, if we are unsuccessful in defending against claims of patent infringement, we could be forced to pay damages or be subjected to an injunction that would prevent us from utilizing the patented subject matter, the result of which could have a material adverse effect on our business.

### **Risks related to ownership of our securities**

#### ***The market price of our ADSs may be highly volatile and may fluctuate due to factors beyond our control.***

The trading price of our ADSs has fluctuated and is likely to continue to fluctuate significantly. The market price of our ADSs depends on a number of factors, some of which are beyond our control. In addition to the factors discussed in this "Item 1.A.—Risk Factors" and elsewhere in this Quarterly Report, these factors include:

- adverse results or delays in preclinical studies or clinical trials;
- reports of adverse events in other gene therapy products or clinical trials of such products;
- an inability to obtain additional funding;
- failure by us to successfully develop and commercialize our product candidates;
- failure by our current or future collaborators to successfully develop and commercialize product candidates for which we are eligible to receive milestone and royalty payments;
- failure by us to adequately scale our manufacturing capabilities and commercial and sales organization to succeed in our commercialization efforts of Libmeldy and to achieve our expected timeline of commencing sales of Libmeldy;
- failure by us to succeed in our ongoing commercialization of Strimvelis;
- failure by us to gain broad insurance coverage and reimbursement for our product candidates, if approved;
- failure by us to maintain our existing strategic collaborations or enter into new collaborations;
- failure by us or our licensors and strategic partners to prosecute, maintain or enforce our intellectual property rights;
- changes in laws or regulations applicable to future products;
- an inability to obtain adequate product supply for our product candidates or the inability to do so at acceptable prices;
- adverse regulatory decisions;
- the introduction of new products, services or technologies by our competitors;
- failure by us to meet or exceed financial or other projections we may provide to the public;
- failure by us to meet or exceed the financial or other projections of the investment community;
- the perception of the pharmaceutical industry by the public, legislatures, regulators and the investment community;
- announcements of significant acquisitions, strategic partnerships, joint ventures or capital commitments by us, our strategic partner or our competitors;
- disputes or other developments relating to proprietary rights, including patents, litigation matters and our ability to obtain patent protection for our technologies;
- additions or departures of key scientific or management personnel;
- significant lawsuits, including patent or shareholder litigation;
- changes in the market valuations of similar companies;
- general economic and market conditions, including the significant disruptions to the U.S. and global economies and the related significant volatility and negative pressure in financial markets caused by the COVID-19 global pandemic;
- sales of our ADSs by us or our shareholders in the future; and
- the trading volume of our ADSs.

In addition, companies trading in the stock market in general, and The Nasdaq Global Select Market in particular, have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of these companies. Broad market and industry factors may negatively affect the market price of our ADSs, regardless of our actual operating performance.

***If securities or industry analysts do not continue to publish research or publish inaccurate or unfavorable research about our business, our ADS price and trading volume could decline.***

The trading market for our ADSs depends in part on the research and reports that securities or industry analysts publish about us or our business. We do not have any control over these analysts. In the event one or more analysts downgrade our ADSs or change their opinion of our ADSs, our ADS price would likely decline. In addition, if one or more analysts cease coverage of our company or fail to regularly publish reports on us, we could lose visibility in the financial markets, which could cause our ADS price or trading volume to decline.

***Concentration of ownership of our ordinary shares (including ordinary shares in the form of ADSs) among our existing executive officers, directors and principal shareholders may prevent new investors from influencing significant corporate decisions.***

Based upon our ordinary shares outstanding as of June 30, 2021, our executive officers, directors, greater than five percent shareholders and their affiliates beneficially own approximately 47% of our ordinary shares and ADSs. Depending on the level of attendance at our meetings of shareholders, these shareholders either alone or voting together as a group may be in a position to determine or significantly influence the outcome of decisions taken at any such meeting. Any shareholder or group of shareholders controlling more than 50% of the share capital present and voting at our meetings of shareholders may control any shareholder resolution requiring a simple majority, including the appointment of board members, certain decisions relating to our capital structure, the approval of certain significant corporate transactions and amendments to our Articles of Association. Among other consequences, this concentration of ownership may prevent or discourage unsolicited acquisition proposals that our shareholders may believe are in their best interest as shareholders. Some of these persons or entities may have interests that are different than those of our other shareholders. For example, because many of these shareholders purchased their ordinary shares at prices substantially below the price at which ADSs were sold in our initial public offering have held their ordinary shares for a longer period, they may be more interested in selling our company to an acquirer than other investors or they may want us to pursue strategies that deviate from the interests of other shareholders.

***Future sales, or the possibility of future sales, of a substantial number of our securities could adversely affect the price of the shares and dilute shareholders.***

Additional sales of our ADSs, or the perception that these sales could occur, could cause the market price of our ADSs to decline. If any of our large shareholders or members of our management team sell substantial amounts of ADSs in the public market, or the market perceives that such sales may occur, the market price of our ADSs and our ability to raise capital through an issue of equity securities in the future could be adversely affected. Additionally, we filed a registration statement with the SEC and may issue securities in one or more underwritten transactions, in “at-the-market” offerings or in other transactions from time to time. If we were to issue such securities in the public market, the trading price of our ADSs could decline.

***Holder of ADSs are not treated as holders of our ordinary shares***

Holder of our publicly traded securities are holders of ADSs with underlying ordinary shares in a company incorporated under English law. Holders of ADSs are not treated as holders of our ordinary shares, unless they withdraw the ordinary shares underlying their ADSs in accordance with the deposit agreement and applicable laws and regulations. The depositary is the holder of the ordinary shares underlying the ADSs. Holders of ADSs therefore do not have any rights as holders of our ordinary shares, other than the rights that they have pursuant to the deposit agreement.

***Holder of ADSs may be subject to limitations on the transfer of their ADSs and the withdrawal of the underlying ordinary shares.***

ADSs are transferable on the books of the depositary. However, the depositary may close its books at any time or from time to time when it deems expedient in connection with the performance of its duties. The depositary may refuse to deliver, transfer or register transfers of ADSs generally when our books or the books of the depositary are closed, or at any time if we or the depositary think it is advisable to do so because of any requirement of law, government or governmental body, or under any provision of the deposit agreement, or for any other reason, subject to the right of ADS holders to cancel their ADSs and withdraw the underlying ordinary shares. Temporary delays in the cancellation of the holder’s ADSs and withdrawal of the underlying ordinary shares may arise because the depositary has closed its transfer books or we have closed our transfer books, the transfer of ordinary shares is blocked to permit voting at a shareholders’ meeting or we are paying a dividend on our ordinary shares. In addition, ADS holders may not be able to cancel their ADSs and withdraw the underlying ordinary shares when they owe money for fees, taxes and similar charges and when it is necessary to prohibit withdrawals in order to comply with any laws or governmental regulations that apply to ADSs or to the withdrawal of ordinary shares or other deposited securities.

***We are entitled to amend the deposit agreement and to change the rights of ADS holders under the terms of such agreement, or to terminate the deposit agreement, without the prior consent of the ADS holders.***

We are entitled to amend the deposit agreement and to change the rights of the ADS holders under the terms of such agreement, without the prior consent of the ADS holders. We and the depository may agree to amend the deposit agreement in any way we decide is necessary or advantageous to us or to the depository. Amendments may reflect, among other things, operational changes in the ADS program, legal developments affecting ADSs or changes in the terms of our business relationship with the depository. In the event that the terms of an amendment are materially disadvantageous to ADS holders, ADS holders will only receive 30 days' advance notice of the amendment, and no prior consent of the ADS holders is required under the deposit agreement. Furthermore, we may decide to direct the depository to terminate the ADS facility at any time for any reason. For example, terminations may occur when we decide to list our ordinary shares on a non-U.S. securities exchange and determine not to continue to sponsor an ADS facility or when we become the subject of a takeover or a going-private transaction. If the ADS facility will terminate, ADS holders will receive at least 30 days' prior notice, but no prior consent is required from them. Under the circumstances that we decide to make an amendment to the deposit agreement that is disadvantageous to ADS holders or terminate the deposit agreement, the ADS holders may choose to sell their ADSs or surrender their ADSs and become direct holders of the underlying ordinary shares, but they will have no right to any compensation whatsoever.

***ADSs holders may not be entitled to a jury trial with respect to claims arising under the deposit agreement, which could result in less favorable outcomes to the plaintiff(s) in any such action.***

The deposit agreement governing the ADSs representing our ordinary shares provides that, to the fullest extent permitted by law, holders and beneficial owners of ADSs irrevocably waive the right to a jury trial of any claim they may have against us or the depository arising out of or relating to the ADSs or the deposit agreement.

If this jury trial waiver provision is not permitted by applicable law, an action could proceed under the terms of the deposit agreement with a jury trial. If we or the depository opposed a jury trial demand based on the waiver, the court would determine whether the waiver was enforceable based on the facts and circumstances of that case in accordance with the applicable state and federal law. To our knowledge, the enforceability of a contractual pre-dispute jury trial waiver in connection with claims arising under the federal securities laws has not been finally adjudicated by the Supreme Court. However, we believe that a contractual pre-dispute jury trial waiver provision is generally enforceable, including under the laws of the State of New York, which govern the deposit agreement, by a federal or state court in the City of New York, which has non-exclusive jurisdiction over matters arising under the deposit agreement. In determining whether to enforce a contractual pre-dispute jury trial waiver provision, courts will generally consider whether a party knowingly, intelligently and voluntarily waived the right to a jury trial. We believe that this is the case with respect to the deposit agreement and the ADSs.

If any holders or beneficial owners of ADSs bring a claim against us or the depository in connection with matters arising under the deposit agreement or the ADSs, including claims under federal securities laws, such holder or beneficial owner may not be entitled to a jury trial with respect to such claims, which may have the effect of limiting and discouraging lawsuits against us and/or the depository. If a lawsuit is brought against us and/or the depository under the deposit agreement, it may be heard only by a judge or justice of the applicable trial court, which would be conducted according to different civil procedures and may result in different outcomes than a trial by jury would have had, including results that could be less favorable to the plaintiff(s) in any such action, depending on, among other things, the nature of the claims, the judge or justice hearing such claims, and the venue of the hearing.



No condition, stipulation or provision of the deposit agreement or ADSs serves as a waiver by any holder or beneficial owner of ADSs or by us or the depository of compliance with any substantive provision of the U.S. federal securities laws and the rules and regulations promulgated thereunder.

***Holders of our ADSs do not have the same voting rights as the holders of our ordinary shares and may not receive voting materials in time to be able to exercise the holder's right to vote.***

Except as described in our Annual Report and this Quarterly Report and in the deposit agreement, holders of the ADSs will not be able to exercise voting rights attaching to the ordinary shares represented by the ADSs. Under the terms of the deposit agreement, holders of the ADSs may instruct the depository to vote the ordinary shares underlying their ADSs. Otherwise, holders of ADSs will not be able to exercise their right to vote unless they withdraw the ordinary shares underlying their ADSs to vote them in person or by proxy in accordance with applicable laws and regulations and our Articles of Association. Even so, ADS holders may not know about a meeting far enough in advance to withdraw those ordinary shares. If we ask for the instructions of holders of the ADSs, the depository, upon timely notice from us, will notify ADS holders of the upcoming vote and arrange to deliver our voting materials to them. Upon our request, the depository will mail to holders a shareholder meeting notice that contains, among other things, a statement as to the manner in which voting instructions may be given. We cannot guarantee that ADS holders will receive the voting materials in time to ensure that they can instruct the depository to vote the ordinary shares underlying their ADSs. A shareholder is only entitled to participate in, and vote at, the meeting of shareholders, provided that it holds our ordinary shares as of the record date set for such meeting and otherwise complies with our Articles of Association. In addition, the depository's liability to ADS holders for failing to execute voting instructions or for the manner of executing voting instructions is limited by the deposit agreement. As a result, holders of ADSs may not be able to exercise their right to give voting instructions or to vote in person or by proxy and they may not have any recourse against the depository or us if their ordinary shares are not voted as they have requested or if their shares cannot be voted.

***Holders of our ADSs may not receive distributions on our ordinary shares represented by the ADSs or any value for them if it is illegal or impractical to make them available to holders of ADSs.***

The depository for the ADSs has agreed to pay to the holders of our ADSs the cash dividends or other distributions it or the custodian receives on our ordinary shares or other deposited securities after deducting its fees and expenses. Holders of our ADSs will receive these distributions in proportion to the number of our ordinary shares such holder's ADSs represent. However, in accordance with the limitations set forth in the deposit agreement, it may be unlawful or impractical to make a distribution available to holders of ADSs. We have no obligation to take any other action to permit distribution on the ADSs, ordinary shares, rights or anything else to holders of the ADSs. This means that holders of our ADSs may not receive the distributions we make on our ordinary shares or any value from them if it is unlawful or impractical to make them available. These restrictions may have an adverse effect on the value of our ADSs.

***Because we do not anticipate paying any cash dividends on our ADSs in the foreseeable future, capital appreciation, if any, will be the sole source of gains to the holders of our ADSs and such holders may never receive a return on their investment.***

Under current English law, a company's accumulated realized profits must exceed its accumulated realized losses (on a non-consolidated basis) before dividends can be declared and paid. Therefore, we must have distributable profits before declaring and paying a dividend. We have not paid dividends in the past on our ordinary shares. We intend to retain earnings, if any, for use in our business and do not anticipate paying any cash dividends in the foreseeable future. As a result, capital appreciation, if any, on our ADSs will be the sole source of gains to the holders of our ADSs for the foreseeable future, and such holders may suffer a loss on their investment if they are unable to sell their ADSs at or above the price at which such holders purchased the ADSs.

***Sales of a substantial number of our ADSs in the public market by our existing shareholders could cause the market price of our ADSs to drop significantly.***

Sales of a substantial number of our ADS in the public market, or the perception that holders of a large number of ADSs intend to sell, could reduce the market price of our ADSs. As of June 30, 2021, we had outstanding 123,883,097 voting and non-voting ordinary shares. The holders of 21,438,727 shares of our ordinary shares are entitled to rights with respect to the registration of their ordinary shares under the Securities Act of 1933, as amended, or the Securities Act. Registration of these ordinary shares under the Securities Act would result in the ADSs representing them becoming freely tradable without restriction, except for ADSs purchased by affiliates. In addition, our directors, executive officers and other affiliates may establish, and certain executive officers, directors and affiliates have established, programmatic selling plans under Rule 10b5-1 of the Exchange Act, for the purpose of effecting sales of our ADSs. Generally, sales under such plans by our executive officers and directors require public filings. Any sales of securities by these shareholders, or the perception that those sales may occur, under such programmed selling plans, could have a material adverse effect on the trading price of our ADSs. In addition, as of June 30, 2021, 16,204,011 ordinary shares reserved for issuance upon the exercise

of existing options outstanding and issuance of performance-based and time-based restricted shares under our current equity incentive plans will become eligible for sale in the public market in the future, subject to certain legal and contractual limitations.

***We will continue to incur increased costs as a result of operating as a company whose ADSs are publicly traded in the United States, and our management is required to devote substantial time to new compliance initiatives.***

As a public company listed on a U.S. exchange, we have incurred and will continue to incur significant legal, accounting and other expenses that we did not incur as a private company. In addition, the Sarbanes-Oxley Act and rules subsequently implemented by the SEC and Nasdaq have imposed various requirements on public companies, including establishment and maintenance of effective disclosure and financial controls and corporate governance practices. Our management and other personnel are required to devote a substantial amount of time to these compliance initiatives. Moreover, these rules and regulations have increased and will continue to increase our legal and financial compliance costs and make some activities more time-consuming and costly.

Pursuant to Section 404 of the Sarbanes-Oxley Act (“Section 404”), we are required to furnish a report by our management on our internal control over financial reporting and, once we are no longer a “smaller reporting company”, we will be required to furnish an attestation report on internal control over financial reporting issued by our independent registered public accounting firm. In order to achieve and maintain compliance with Section 404, we have documented and evaluated our internal control over financial reporting, which is both costly and challenging. In this regard, we continue to dedicate internal resources, have engaged outside consultants and adopted a detailed work plan to continually assess and document the adequacy of internal control over financial reporting, taken steps to improve control processes as appropriate, validated through testing that controls are functioning as documented and have implemented a continuous reporting and improvement process for internal control over financial reporting. Despite our efforts, there is a risk in any given year that we will not be able to conclude within the prescribed timeframe that our internal control over financial reporting is effective as required by Section 404. This could result in an adverse reaction in the financial markets due to a loss of confidence in the reliability of our financial statements. Moreover, if our independent registered public accounting firm is unable to express an opinion as to the effectiveness of our internal control over financial reporting, investors may lose confidence in the accuracy and completeness of our financial reports and the market price of our ADSs could be negatively affected, and we could become subject to investigations by the SEC or other regulatory authorities or to shareholder litigation, which could have an adverse impact on the market price or our ADSs and cause us to incur additional expenses.

***Shareholder protections and restrictions found in provisions under The City Code on Takeovers and Mergers do not apply to us.***

In February 2020, the UK Takeover Panel confirmed that we are not considered to be subject to The City Code on Takeovers and Mergers, or The Takeover Code, and, as a result, our shareholders are not entitled to the benefit of certain takeover offer protections provided under The Takeover Code. The Takeover Code provides a framework within which takeovers of companies are regulated and conducted and which may operate to prohibit certain arrangements and courses of conduct considered customary in the United States. There are no provisions in our Articles of Association that replicate the provisions of The Takeover Code.

We believe that this position is unlikely to change at any time in the near future, but in accordance with good practice, we will review the situation on a regular basis and cooperate and consult with the UK Takeover Panel if there is any material change in our circumstances with respect to matters which the UK Takeover Panel might consider relevant in their determination of jurisdiction over us.

***The rights of our shareholders may differ from the rights typically offered to shareholders of a U.S. corporation.***

We are incorporated under English law. The rights of holders of ordinary shares and, therefore, certain of the rights of holders of ADSs, are governed by English law, including the provisions of the UK Companies Act 2006, or the Companies Act, and by our Articles of Association. These rights differ in certain respects from the rights of shareholders in typical U.S. corporations.

The principal differences include the following:

- Under English law and our Articles of Association, each shareholder present at a meeting has only one vote unless demand is made for a vote on a poll, in which case each holder gets one vote per share owned. Under U.S. law, each shareholder typically is entitled to one vote per share at all meetings.
- Under English law, it is only on a poll that the number of shares determines the number of votes a holder may cast. The voting rights of ADSs are also governed by the provisions of a deposit agreement with our depositary bank.
- Under English law, subject to certain exceptions and disapplications, each shareholder generally has preemptive rights to subscribe on a proportionate basis to any issuance of ordinary shares or rights to subscribe for, or to convert securities into, ordinary shares for cash. Under U.S. law, shareholders generally do not have preemptive rights unless specifically granted in the certificate of incorporation or otherwise.
- Under English law and our Articles of Association, certain matters require the approval of 75% of the shareholders who vote (in person or by proxy) on the relevant resolution (or on a poll of shareholders representing 75% of the ordinary shares voting (in person or by proxy)), including amendments to the Articles of Association. This may make it more difficult for us to complete corporate transactions deemed advisable by our board of directors. Under U.S. law, generally only majority shareholder approval is required to amend the certificate of incorporation or to approve other significant transactions.
- In the United Kingdom, takeovers may be structured as takeover offers or as schemes of arrangement. Under English law, a bidder seeking to acquire us by means of a takeover offer would need to make an offer for all of our outstanding ordinary shares/ADSs. If acceptances are not received for 90% or more of the ordinary shares/ADSs under the offer, under English law, the bidder cannot complete a “squeeze out” to obtain 100% control of us. Accordingly, acceptances of 90% of our outstanding ordinary shares/ADSs will likely be a condition in any takeover offer to acquire us, not 50% as is more common in tender offers for corporations organized under Delaware law. By contrast, a scheme of arrangement, the successful completion of which would result in a bidder obtaining 100% control of us, requires the approval of a majority of shareholders voting at the meeting and representing 75% of the ordinary shares voting for approval.
- Under English law and our Articles of Association, shareholders and other persons whom we know or have reasonable cause to believe are, or have been, interested in our shares may be required to disclose information regarding their interests in our shares upon our request, and the failure to provide the required information could result in the loss or restriction of rights attaching to the shares, including prohibitions on certain transfers of the shares, withholding of dividends and loss of voting rights. Comparable provisions generally do not exist under U.S. law.

***If we fail to maintain an effective system of internal control over financial reporting, we may not be able to accurately report our financial results or prevent fraud. As a result, shareholders could lose confidence in our financial and other public reporting, which would harm our business and the trading price of our ADSs.***

Effective internal controls over financial reporting are necessary for us to provide reliable financial reports and, together with adequate disclosure controls and procedures, are designed to prevent fraud. Any failure to implement required new or improved controls, or difficulties encountered in their implementation could cause us to fail to meet our reporting obligations. In addition, testing required to be conducted by us in connection with Section 404, and subsequent testing by our independent registered public accounting firm, may reveal deficiencies in our internal controls over financial reporting that are deemed to be material weaknesses or that may require prospective or retroactive changes to our financial statements or identify other areas for further attention or improvement. Inferior internal controls could also cause investors to lose confidence in our reported financial information, which could have a negative effect on the trading price of our ADSs.

We are required to disclose changes made in our internal controls and procedures on a quarterly basis, and our management is required to assess the effectiveness of these controls annually. However, for as long as we are a “smaller reporting company,” our independent registered public accounting firm will not be required to attest to the effectiveness of our internal control over financial reporting pursuant to Section 404. We will qualify as a “smaller reporting company” if the market value of our ADSs held by non-affiliates is below \$250 million (or \$700 million if our annual revenue is less than \$100 million) as of the last business day of our most recently completed second fiscal quarter. An independent assessment of the effectiveness of our internal control over financial reporting could detect problems that our management’s assessment might not. Undetected material weaknesses in our internal control over financial reporting could lead to financial statement restatements and require us to incur the expense of remediation.

***Our disclosure controls and procedures may not prevent or detect all errors or acts of fraud.***

We are subject to certain reporting requirements of the Exchange Act. Our disclosure controls and procedures are designed to reasonably assure that information required to be disclosed by us in reports we file or submit under the Exchange Act is accumulated and communicated to management, recorded, processed, summarized and reported within the time periods specified in the rules and forms of the SEC. We believe that any disclosure controls and procedures or internal controls and procedures, no matter how well

conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people or by an unauthorized override of the controls. Accordingly, because of the inherent limitations in our control system, misstatements or insufficient disclosures due to error or fraud may occur and not be detected.

## **Risks related to taxation**

### ***Changes in tax law could adversely affect our business and financial condition.***

We conduct business globally. The tax treatment of the company or any of the group companies could be materially adversely affected by several factors, including, but not limited to: (i) changing tax laws, regulations and treaties, or the interpretation thereof; (ii) tax policy initiatives and reforms under consideration (such as those related to the Organization for Economic Co-Operation and Development's, or OECD, Base Erosion and Profit Shifting, or BEPS, Project, the European Commission's state aid investigations and other initiatives); (iii) the practices of tax authorities in jurisdictions in which we operate; and (iv) the resolution of issues arising from tax audits or examinations and any related interest or penalties. Such changes may include (but are not limited to) the taxation of operating income, investment income, dividends received or (in the specific context of withholding tax) dividends paid.

We are unable to predict what tax reform may be proposed or enacted in the future or what effect such changes would have on our business, but such changes, to the extent they are brought into tax legislation, regulations, policies or practices in jurisdictions in which we operate, could affect our financial position, future results of operations, cash flows in a particular period and overall or effective tax rates in the future in countries where we have operations, reduce post-tax returns to our shareholders and increase the complexity, burden and cost of tax compliance.

### ***Taxing authorities could challenge our historical and future tax positions or our allocation of taxable income among our subsidiaries, and tax laws to which we are subject could change in a manner adverse to us.***

We operate through various subsidiaries in a number of countries throughout the world. Consequently, we are subject to tax laws, treaties, and regulations in the countries in which we operate, and these laws and treaties are subject to interpretation. We have taken, and will continue to take, tax positions based on our interpretation of such tax laws.

Our transfer pricing arrangements are not generally binding on applicable tax authorities. The price charged for products, services, or the royalty rates and other amounts paid for intellectual property rights, could be challenged by the various tax authorities, resulting in additional tax liability, interest, and/or penalties. There can be no assurance that a taxing authority will not have a different interpretation of applicable law and assess us with additional taxes. Similarly, a tax authority could assert that we are subject to tax in a jurisdiction where we believe we have not established a taxable connection, often referred to as a "permanent establishment" under international tax treaties, and such an assertion, if successful, could increase our expected tax liability in one or more jurisdictions. If we are assessed with additional taxes, this may result in a material adverse effect on our results of operations and/or financial condition.

A tax authority may take the position that material income tax liabilities, interest and penalties are payable by us, for example where there has been a technical violation of contradictory laws and regulations that are relatively new and have not been subject to extensive review or interpretation, in which case we expect that we might contest such assessment. Contesting such an assessment may be lengthy and costly and if we were unsuccessful in disputing the assessment, the implications could increase our anticipated effective tax rate, where applicable, or result in other liabilities.

***If we are a controlled foreign corporation, there could be adverse U.S. federal income tax consequences to certain U.S. holders.***

Each “Ten Percent Shareholder” (as defined below) in a non-U.S. corporation that is classified as a “controlled foreign corporation,” or a CFC, for U.S. federal income tax purposes generally is required to include in income for U.S. federal tax purposes such Ten Percent Shareholder’s pro rata share of the CFC’s “Subpart F income” and investment of earnings in U.S. property, even if the CFC has made no distributions to its shareholders. Subpart F income generally includes dividends, interest, rents, royalties, global intangible low-taxed income, gains from the sale of securities and income from certain transactions with related parties. In addition, a Ten Percent Shareholder that realizes gain from the sale or exchange of shares in a CFC may be required to classify a portion of such gain as dividend income rather than capital gain. A non-U.S. corporation generally will be classified as a CFC for U.S. federal income tax purposes if Ten Percent Shareholders own, directly or indirectly, more than 50% of either the total combined voting power of all classes of stock of such corporation entitled to vote or of the total value of the stock of such corporation. A “Ten Percent Shareholder” is a United States person (as defined by the Code) who owns or is considered to own 10% or more of the total combined voting power of all classes of stock entitled to vote of such corporation. The determination of CFC status is complex and includes attribution rules, the application of which is not entirely certain.

We believe that we were not a CFC in the 2020 taxable year, but we may become a CFC in a subsequent taxable year. If we are classified as both a CFC and a passive foreign investment company, or PFIC (as discussed below), we generally will not be treated as a PFIC with respect to those U.S. holders that meet the definition of a Ten Percent Shareholder during the period in which we are a CFC.

***If we are a PFIC there could be adverse U.S. federal income tax consequences to U.S. holders.***

Under the Code, we will be a PFIC, for any taxable year in which (i) 75% or more of our gross income consists of passive income or (ii) 50% or more of the average quarterly value of our assets consists of assets that produce, or are held for the production of, passive income. For purposes of these tests, passive income includes dividends, interest, gains from the sale or exchange of investment property and certain rents and royalties. In addition, for purposes of the above calculations, a non-U.S. corporation that directly or indirectly owns at least 25% by value of the shares of another corporation is treated as holding and receiving directly its proportionate share of assets and income of such corporation. If we are a PFIC for any taxable year during which a U.S. holder holds our shares, the U.S. holder may be subject to adverse tax consequences regardless of whether we continue to qualify as a PFIC, including ineligibility for any preferred tax rates on capital gains or on actual or deemed dividends, interest charges on certain taxes treated as deferred and additional reporting requirements.

We do not believe that we were a PFIC in the 2020 taxable year. The determination of whether we are a PFIC is a fact-intensive determination made on an annual basis applying principles and methodologies that in some circumstances are unclear and subject to varying interpretation. The value of our assets would also be determined differently for the purposes of this determination if we were treated as a CFC, as discussed above. As a result, there can be no assurance regarding if we currently are treated as a PFIC, or may be treated as a PFIC in the future. In addition, for our current and future taxable years, the total value of our assets for PFIC testing purposes may be determined in part by reference to the market price of our ordinary shares or ADSs from time to time, which may fluctuate considerably. Under the income test, our status as a PFIC depends on the composition of our income which will depend on the transactions we enter into in the future and our corporate structure. The composition of our income and assets is also affected by the spending of the cash we raise in any offering.

In certain circumstances, a U.S. holder of shares in a PFIC may alleviate some of the adverse tax consequences described above by making either a “qualified electing fund,” or QEF, election or a mark-to-market election (if our ordinary shares or ADSs constitute “marketable” securities under the Code), which each require the inclusion of a pro rata share of our income on a current basis. However, a U.S. holder may make a QEF election with respect to our ordinary shares or ADSs only if we agree to furnish such U.S. holder annually with required information, and we have not determined if we intend to prepare or provide the information that would enable U.S. holders to make a QEF election. However, a U.S. holder would be able to make a mark-to-market election with respect to our ordinary shares or ADSs as long as those shares or ADSs constitute marketable securities under the Code.

***We may be unable to use UK net operating loss and tax credit carryforwards and certain built-in losses to reduce future tax payments or benefit from favorable UK tax legislation.***

As a UK incorporated and tax resident entity, we are subject to UK corporate taxation on tax-adjusted trading profits. Due to the nature of our business, we have generated losses since inception and therefore have not paid any UK corporation tax. As of December 31, 2020, we had cumulative carryforward tax losses of \$390.1 million. Subject to numerous utilization criteria and restrictions (including those that limit the percentage of profits that can be reduced by carried forward losses and those that can restrict the use of carried forward losses where there is a change of ownership of more than half the ordinary shares of the Company and a major change in the nature, conduct or scale of the trade), we expect these to be eligible for carry forward and utilization against future operating

profits. The use of loss carryforwards in relation to UK profits incurred on or after April 1, 2017 will be limited each year to £5.0 million plus an incremental 50% of UK taxable profits. In addition, if we were to have a major change in the nature of the conduct of our trade, loss carryforwards may be restricted or extinguished.

As a company that carries out extensive research and development activities, we seek to benefit from two UK research and development tax relief programs, the Small and Medium-sized Enterprises R&D Tax Credit Program, or SME Program, and the Research and Development Expenditure Credit program, or RDEC Program. Where available, we may be able to surrender the trading losses that arise from our qualifying research and development activities for cash or carried forward for potential offset against future profits (subject to relevant restrictions). The majority of our pipeline research, clinical trials management and manufacturing development activities are eligible for inclusion within these tax credit cash rebate claims. Our eligibility to claim payable research and development tax credits may be limited or eliminated because we may no longer qualify as a small or medium-sized company. We may benefit in the future from the United Kingdom's "patent box" regime, which allows certain profits attributable to revenues from patented products (and other qualifying income) to be taxed at an effective rate of 10%. We are the exclusive licensee or owner of several patent applications which, if issued, would cover our product candidates, and accordingly, future upfront fees, milestone fees, product revenues and royalties could be taxed at this tax rate. When taken in combination with the enhanced relief available on our research and development expenditures, we expect a long-term lower rate of corporation tax to apply to us. If, however, there are unexpected adverse changes to the UK research and development tax credit regime or the "patent box" regime, or for any reason we are unable to qualify for such advantageous tax legislation, or we are unable to use net operating loss and tax credit carryforwards and certain built-in losses to reduce future tax payments then our business, results of operations and financial condition may be adversely affected.

***Our ability to use our U.S. tax attributes may be limited.***

Under Section 382 and 383 of the Internal Revenue Code of 1986, as amended (the "Code"), if a corporation undergoes an "ownership change," generally defined as a greater than 50% change (by value) in its equity ownership over a three-year period, the corporation's ability to use its pre-change tax attributes (such as research tax credits) to offset its post-change tax liabilities may be limited. We have completed several financings since our inception, which we believe have resulted in a change in control as defined by Section 382 of the Code. We may also experience ownership changes in the future as a result of subsequent shifts in our share ownership. As a result, if we incur U.S. federal tax liability, our ability to use our pre-change tax attributes carryforwards to offset U.S. federal tax liability may be subject to limitations, which could potentially result in increased future tax liability to us.

**Risks related to our Domicile**

***The United Kingdom's withdrawal from the European Union may have a negative effect on global economic conditions, financial markets and our business.***

In June 2016, a majority of the eligible members of the electorate in the United Kingdom voted to withdraw from the European Union in a national referendum, commonly referred to as Brexit. The withdrawal of the United Kingdom from the European Union took effect on January 31, 2020 (the "Exit Day"). A post-Brexit transition period, or the Transition Period, started on the Exit Day and expired on December 31, 2020. During the Transition Period, most laws of the European Union continued to apply to the United Kingdom while the future relationship between the United Kingdom and the European Union was formally negotiated. The United Kingdom and the European Union have signed a EU-UK Trade and Cooperation Agreement, which became provisionally applicable on January 1, 2021 and was ratified in April 2021. This agreement provides details on how some aspects of the UK and EU's relationship will operate going forward, however there are still many uncertainties.

The uncertainty concerning the United Kingdom's legal, political and economic relationship with the European Union after Brexit may be a source of instability in the international markets, create significant currency fluctuations, and/or otherwise adversely affect trading agreements or similar cross-border co-operation arrangements (whether economic, tax, fiscal, legal, regulatory or otherwise) beyond the date of Brexit.

These developments, or the perception that any of them could occur, have had, and may continue to have, a significant adverse effect on global economic conditions and the stability of global financial markets, and could significantly reduce global market liquidity and restrict the ability of key market participants to operate in certain financial markets. In particular, it could also lead to a period of considerable uncertainty in relation to the UK financial and banking markets, as well as on the regulatory process in Europe. As a result of Brexit, the EMA, formerly situated in London, relocated to Amsterdam. Further, there is considerable uncertainty resulting from a lack of precedent and the complexity of the United Kingdom and EU's intertwined legal regimes as to how Brexit, now that the Transition Period has expired, will impact the life sciences industry in Europe, including our company, including with respect to ongoing or future clinical trials. Since a significant proportion of the regulatory framework in the United Kingdom applicable to our business and our product candidates is derived from EU directives and regulations, the withdrawal could materially

impact the regulatory regime with respect to the development, manufacture, importation, approval and commercialization of our product candidates in the United Kingdom or the European Union. The impact will largely depend on the model and means by which the United Kingdom's relationship with the European Union is governed post-Brexit. For example, now that the Transition Period has expired, Great Britain will no longer be covered by the centralized procedures for obtaining EEA-wide marketing authorization from the EMA, and a separate process for authorization of drug products, including our product candidates, will be required in Great Britain resulting in an authorization covering the United Kingdom or Great Britain only. For a period of two years from January 1, 2021, the MHRA may rely on a decision taken by the European Commission on the approval of a new marketing authorization in the centralized procedure, in order to more quickly grant a UK marketing authorization. A separate application will, however, still be required. The MHRA has published a series of guidance notes on how the process for authorization of medicines will now work, however exactly what implications this will have in practice remain unclear. As a result, we cannot predict the extent of the impact that Brexit will have on (i) the marketing of pharmaceutical products, (ii) the process to obtain regulatory approval in the United Kingdom for product candidates or (iii) the award of exclusivities that are normally part of the EU legal framework (for instance Supplementary Protection Certificates, Pediatric Extensions or Orphan exclusivity). Any delay in obtaining, or an inability to obtain, any marketing approvals, as a result of Brexit or otherwise, would prevent us from commercializing our product candidates in the United Kingdom or the European Union and restrict our ability to generate revenue and achieve and sustain profitability.

Brexit may also result in a reduction of funding to the EMA if the United Kingdom no longer makes financial contributions to European institutions, such as the EMA. If UK funding is so reduced, it could create delays in the EMA issuing regulatory approvals for our product candidates and, accordingly, have a material adverse effect on our business, financial condition, results of operations or prospects.

In addition, we may be required to pay taxes or duties or be subjected to other hurdles in connection with the importation of our product candidates into the European Union, or we may incur expenses in establishing a manufacturing facility in the European Union in order to circumvent such hurdles. If any of these outcomes occur, we may be forced to restrict or delay efforts to seek regulatory approval in the United Kingdom or the European Union for our product candidates, or incur significant additional expenses to operate our business, which could significantly and materially harm or delay our ability to generate revenues or achieve profitability of our business.

As a result of this uncertainty, global financial markets could experience significant volatility, which could adversely affect the market price of our ADSs. Asset valuations, currency exchange rates and credit ratings may also be subject to increased market volatility. Lack of clarity about future UK laws and regulations as the United Kingdom determines which European Union rules and regulations to replicate or replace with its own rules and regulations (which may result in significant divergence from European rules and regulations), including financial laws and regulations, tax and free trade agreements, intellectual property rights, supply chain logistics, environmental, health and safety laws and regulations, immigration laws and employment laws, could decrease foreign direct investment in the United Kingdom, increase costs, depress economic activity and restrict our access to capital.

If other EU Member States pursue withdrawal, barrier-free access between the United Kingdom and other EU Member States or among the EEA overall could be diminished or eliminated. The long-term effects of Brexit will depend on how the EU-UK Trade and Cooperation Agreement, and any future agreements signed by the UK and the European Union, take effect in practice.

Such a withdrawal from the European Union is unprecedented, and it is unclear how the restrictions on the United Kingdom's access to the European single market for goods, capital, services and labor within the European Union, or single market, and the wider commercial, legal and regulatory environment, will impact our United Kingdom operations. and customers.

We may also face new regulatory costs and challenges that could have an adverse effect on our operations. The United Kingdom will lose the benefits of global trade agreements negotiated by the European Union on behalf of its members, which may result in increased trade barriers that could make our doing business in the European Union and the EEA more difficult. Even prior to any change to the United Kingdom's relationship with the European Union, the announcement of Brexit has created economic uncertainty surrounding the terms of Brexit and its consequences which could adversely affect our business, revenue, financial condition, results of operations and could adversely affect the market price of our ADSs.

***Legal, political and economic uncertainty surrounding the United Kingdom's withdrawal from the European Union may be a source of instability in international markets, create significant currency fluctuations and risks of additional taxation, adversely affect our operations in the United Kingdom and pose additional risks to our business, revenue, financial condition, and results of operations.***

Since a significant proportion of the regulatory framework in the United Kingdom applicable to our business and our product candidates is derived from European Union directives and regulations, Brexit, now that the Transition Period has expired, could

materially impact the regulatory regime with respect to the development, manufacture, importation, approval and commercialization of our product candidates in the United Kingdom or the European Union. For example, as a result of the uncertainty surrounding Brexit, the EMA relocated to Amsterdam from London. Following the expiry of the Transition Period, Great Britain will no longer be covered by the centralized procedures for obtaining EEA-wide marketing and manufacturing authorizations from the EMA (under the Northern Irish Protocol, centralized marketing authorizations will continue to be recognized in Northern Ireland) and a separate process for authorization of drug products will be required in Great Britain resulting in an authorization covering Great Britain only. Any delay in obtaining, or an inability to obtain, any marketing approvals, as a result of Brexit or otherwise, would prevent us from commercializing our product candidates in the United Kingdom or the European Union and limit our ability to generate revenue and achieve and sustain profitability. If any of these outcomes occur, we may be forced to restrict or delay efforts to seek regulatory approval in the United Kingdom or the European Union for our product candidates, or incur significant additional expenses to operate our business, which could significantly and materially harm or delay our ability to generate revenues or achieve profitability of our business. Any further changes in international trade, tariff and import/export regulations as a result of Brexit or otherwise may impose unexpected duty costs or other non-tariff barriers on us. These developments, or the perception that any of them could occur, may significantly reduce global trade and, in particular, trade between the impacted nations and the United Kingdom. It is also possible that Brexit may negatively affect our ability to attract and retain employees, particularly those from the European Union.

The uncertainty concerning the United Kingdom's legal, political and economic relationship with the European Union following Brexit may be a source of instability in the international markets, create significant currency fluctuations, and/or otherwise adversely affect trading agreements or similar cross-border co-operation arrangements (whether economic, tax, fiscal, legal, regulatory or otherwise). It is possible, now that the Transition Period has expired, that the application of charges to stamp duty and stamp duty reserve tax to issues or transfers of our ordinary shares to depositary receipt systems or clearance services could be affected. Although under current law and Her Majesty's Revenue & Customs published practice it is not expected that any stamp duty or stamp duty reserve tax, or SDRT, would arise in respect of any issue or transfer of our ordinary shares into a clearance service or depositary receipt system where it forms an integral part of capital raising, it is possible, now that the Transition Period has expired, that existing legislation (which was not previously enforceable but which the Government indicated in April 2017 and HMRC confirmed in their January 2021 Newsletter would not be applied following Brexit) could be applied, for example in the event of a change in Government policy, such that stamp duty and/or SDRT would apply in respect of any issue or transfer of our ordinary shares occurring thereafter including in respect of an issue or transfer which is integral to the raising of capital. In this event, we may be expected to bear any such stamp duty or SDRT (which, based on the existing legislation would be charged, in effect, at the rate of 1.5% of the value of the ordinary shares so issued or transferred). Any such charge would therefore represent an additional cost of our seeking to raise additional capital through further issuances of our ordinary shares.

***Exchange rate fluctuations may materially affect our results of operations and financial condition.***

Owing to the international scope of our operations, fluctuations in exchange rates, particularly between the pound sterling and the U.S. Dollar, may adversely affect us. These adverse impacts may be exacerbated by the ongoing economic dislocation caused by the COVID-19 global pandemic. Although we are based in the United Kingdom, we source research and development, manufacturing, consulting and other services from the United States and the European Union. Further, potential future revenue may be derived from abroad, particularly from the United States. As a result, our business and the price of our ADSs may be affected by fluctuations in foreign exchange rates not only between the pound sterling and the U.S. Dollar, but also the euro, which may have a significant impact on our results of operations and cash flows from period to period. Currently, we do not have any exchange rate hedging arrangements in place.

***Claims of U.S. civil liabilities may not be enforceable against us.***

We are incorporated under English law. Certain members of our board of directors and senior management are non-residents of the United States, and a substantial portion of our assets and the assets of such persons are located outside the United States. As a result, it may not be possible to serve process on such persons or us in the United States or to enforce judgments obtained in U.S. courts against them or us based on civil liability provisions of the securities laws of the United States. As a result, it may not be possible for investors to effect service of process within the United States upon such persons or to enforce judgments obtained in U.S. courts against them or us, including judgments predicated upon the civil liability provisions of the U.S. federal securities laws.



The United States and the United Kingdom do not currently have a treaty providing for recognition and enforcement of judgments (other than arbitration awards) in civil and commercial matters. Consequently, a final judgment for payment given by a court in the United States, whether or not predicated solely upon U.S. securities laws, would not automatically be recognized or enforceable in the United Kingdom. In addition, uncertainty exists as to whether UK courts would entertain original actions brought in the United Kingdom against us or our directors or senior management predicated upon the securities laws of the United States or any state in the United States. Any final and conclusive monetary judgment for a definite sum obtained against us in U.S. courts would be treated by the courts of the United Kingdom as a cause of action in itself and sued upon as a debt at common law so that no retrial of the issues would be necessary, provided that certain requirements are met. Whether these requirements are met in respect of a judgment based upon the civil liability provisions of the U.S. securities laws, including whether the award of monetary damages under such laws would constitute a penalty, is an issue for the court making such decision. If an English court gives judgment for the sum payable under a U.S. judgment, the English judgment will be enforceable by methods generally available for this purpose. These methods generally permit the English court discretion to prescribe the manner of enforcement.

As a result, U.S. investors may not be able to enforce against us or our senior management, board of directors or certain experts named herein who are residents of the United Kingdom or countries other than the United States any judgments obtained in U.S. courts in civil and commercial matters, including judgments under the U.S. federal securities laws.

## **General Risk Factors**

***We have debt service obligations and may incur additional indebtedness in the future, which could adversely affect our financial condition and results of operations and our ability to react to changes in our business.***

We currently have \$33.0 million of principal indebtedness outstanding under the Amended Credit Facility. We have the ability to borrow up to an additional \$67.0 million in the future under the Amended Credit Facility upon satisfaction of certain conditions. Our existing indebtedness and any additional indebtedness we may incur could require us to divert funds identified for other purposes for debt service and impair our liquidity position.

The fact that a portion of our cash, cash equivalents, and marketable securities could be needed to make payments on our indebtedness could have important consequences, including the following:

- increasing our vulnerability to general adverse economic and industry conditions or increased interest rates;
- reducing the availability of our cash, cash equivalents, and marketable securities for other purposes;
- limiting our flexibility in planning for or reacting to changes in our business and the markets in which we operate, which would place us at a competitive disadvantage compared to our competitors that may have less debt;
- limiting our ability to borrow additional funds for working capital, capital expenditures and other investments; and
- failing to comply with the covenants in our debt agreements could result in all of our indebtedness becoming immediately due and payable.

If our business does not generate sufficient cash flow from operations or if future borrowings are not available to us under the Amended Credit Facility or otherwise in amounts sufficient to enable us to fund our liquidity needs, our financial condition and results of operations may be adversely affected. Our inability to make scheduled payments on our debt obligations in the future would require us to refinance all or a portion of our indebtedness on or before maturity, sell assets or seek additional equity investment. We may not be able to take any of such actions on a timely basis, on terms satisfactory to us or at all.

The Amended Credit Facility contains usual and customary restrictive covenants relating to the operation of our business, including restrictions on our ability:

- to incur or guarantee additional indebtedness;
- to incur or permit to exist certain liens;
- to undergo a change in control;
- to amend material agreements and organizational documents;
- to effect certain mergers, consolidations, asset sales and acquisitions; and
- to pay dividends on, or redeem or repurchase, share capital, enter into transactions with affiliates or materially change our business.

***We may be adversely affected by earthquakes, fires or other natural disasters and our business continuity and disaster recovery plans may not adequately protect us from a serious disaster.***

Earthquakes, fires or other natural disasters, including health epidemics and pandemics, could severely disrupt our operations, and have a material adverse effect on our business, results of operations, financial condition and prospects. If a natural disaster, fire, power outage or other event occurred that prevented us from using all or a significant portion of our headquarters or other facilities, that damaged critical infrastructure, such as the manufacturing facilities of our third-party contract manufacturers, or that otherwise disrupted operations, it may be difficult or, in certain cases, impossible for us to continue our business for a substantial period of time. The disaster recovery and business continuity plans we have in place currently are limited and are unlikely to prove adequate in the event of a serious disaster or similar event. We may incur substantial expenses as a result of the limited nature of our disaster recovery and business continuity plans, which, particularly when taken together with our lack of earthquake insurance, could have a material adverse effect on our business, financial condition, results of operations and prospects.

***The anticipated phasing out of LIBOR in the future may adversely affect the value of any outstanding debt instruments.***

National and international regulators and law enforcement agencies have conducted investigations into a number of rates or indices known as “reference rates.” Actions by such regulators and law enforcement agencies may result in changes to the manner in which certain reference rates are determined, their discontinuance, or the establishment of alternative reference rates. In particular, in July 2017, the Chief Executive of the UK Financial Conduct Authority, or FCA, which regulates LIBOR, announced that the FCA will no longer persuade or compel banks to submit rates for the calculation of LIBOR after 2021. Such announcement indicates that the continuation of LIBOR on the current basis cannot and will not be guaranteed after 2021. As a result, it appears highly likely that LIBOR will be discontinued or modified by 2021.

At this time, it is not possible to predict the effect that these developments, any discontinuance, modification or other reforms to LIBOR or any other reference rate, or the establishment of alternative reference rates may have on LIBOR, other benchmarks, or LIBOR-based debt instruments. Uncertainty as to the nature of such potential discontinuance, modification, alternative reference rates or other reforms may materially adversely affect the trading market for securities linked to such benchmarks. Furthermore, the use of alternative reference rates or other reforms could cause the interest rate calculated for the LIBOR-based debt instruments to be materially different than expected.

***Any changes to existing accounting pronouncements or taxation rules or practices may cause adverse fluctuations in our reported results of operations or affect how we conduct our business.***

A change in accounting pronouncements or taxation rules or practices can have a significant effect on our reported results and may affect our reporting of transactions completed before the change is effective. New accounting pronouncements, taxation rules and varying interpretations of accounting pronouncements or taxation rules have occurred in the past and may occur in the future. The change to existing rules, future changes, if any, or the need for us to modify a current tax or accounting position may adversely affect our reported financial results or the way we conduct our business.

***We could be subject to securities class action litigation.***

In the past, securities class action litigation has often been brought against a company following a decline in the market price of its securities. This risk is especially relevant for us because pharmaceutical companies have experienced significant securities price volatility in recent years. If we face such litigation, it could result in substantial costs and a diversion of management’s attention and resources, which could harm our business.

***As a result of the loss of our foreign private issuer status, we are now required to comply with the Exchange Act’s domestic reporting regime, which will cause us to incur significant legal, accounting and other expenses.***

As of June 28, 2019, we determined that we no longer qualified as a “foreign private issuer” as such term is defined in Rule 405 under the Securities Act, which means that we are required to comply with all of the periodic disclosure and current reporting requirements of the Exchange Act applicable to U.S. domestic issuers. As of January 1, 2020, we have been required to comply with the Exchange Act reporting and other requirements applicable to U.S. domestic issuers, which are more detailed and extensive than the requirements for foreign private issuers. We have been required to make changes in our corporate governance practices in accordance with various SEC and Nasdaq rules. As a result of such compliance, the regulatory and compliance costs to us under U.S. securities laws have been higher than the costs we incurred as a foreign private issuer, and therefore, the loss of foreign private issuer status has increased our legal and financial compliance costs. We expect that compliance with the rules and regulations applicable to U.S. domestic issuers will make it more difficult and expensive for us to obtain director and officer liability insurance, and we may be required to accept reduced coverage or incur substantially higher costs to obtain coverage. These rules and regulations could also

make it more difficult for us to attract and retain qualified members of our board of directors. In addition, our officers and directors are no longer exempt from the reporting and “short-swing” profit recovery provisions of Section 16 of the Exchange Act and related rules with respect to their purchase and sales of our securities.

***Because we are no longer an “emerging growth company,” as defined in the JOBS Act, we may incur additional expenses and devote increased management time to compliance with additional disclosures that are applicable to companies that are not emerging growth companies.***

From our initial public offering until December 31, 2019, we were an “emerging growth company,” as defined in the Jumpstart Our Business Startups Act of 2012, or the JOBS Act. While we were an emerging growth company, we were permitted to take advantage of reduced regulatory and reporting requirements that are otherwise generally applicable to public companies. These included, without limitation, reduced disclosure obligations regarding executive compensation and exemptions from the requirements of holding non-binding advisory votes on executive compensation and golden parachute payments. Because we ceased to be an emerging growth company effective as of December 31, 2019, we have incurred and expect to continue to incur additional expenses and to devote increased management time toward ensuring compliance with those requirements applicable to companies that are not emerging growth companies.

Even though we no longer qualify as an emerging growth company, we will qualify as a “smaller reporting company” if the market value of our ADSs held by non-affiliates is below \$250 million (or \$700 million if our annual revenue is less than \$100 million) as of the last business day of our most recently completed second fiscal quarter, which would allow us to take advantage of many of the same exemptions from disclosure requirements.

**Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.**

During the quarter ended June 30, 2021, we did not have any sales of unregistered securities.

**Item 3. Defaults Upon Senior Securities.**

Not applicable.

**Item 4. Mine Safety Disclosures.**

Not applicable.

**Item 5. Other Information.**

None.

**Item 6. Exhibits.**

<b>Exhibit Number</b>	<b>Description</b>
10.1*†	<a href="#">Senior Term Facilities Agreement, dated May 24, 2019, as amended and restated on May 28, 2021, among Orchard Therapeutics plc, the entities listed as original guarantors therein, MidCap Financial (Ireland) Limited, and the additional lenders party thereto from time to time.</a>
31.1*	<a href="#">Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</a>
31.2*	<a href="#">Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</a>
32.1#	<a href="#">Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</a>
101.INS	Inline XBRL Instance Document – the instance document does not appear in the Interactive Data File because XBRL tags are embedded within the Inline XBRL document.
101.SCH	Inline XBRL Taxonomy Extension Schema Document
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

\* Filed herewith.

† Portions of this exhibit (indicated by asterisks) have been omitted in accordance with the rules of the Securities and Exchange Commission.

# Indicates the exhibit is being furnished, not filed, with this report.

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

**ORCHARD THERAPEUTICS PLC**

Date: August 4, 2021

By: \_\_\_\_\_  
/s/ Bobby Gaspar  
**Bobby Gaspar**  
Chief Executive Officer  
(Principal Executive Officer)

Date: August 4, 2021

By: \_\_\_\_\_  
/s/ Frank E. Thomas  
**Frank E. Thomas**  
President and Chief Operating Officer  
(Principal Financial Officer and Principal Accounting Officer)

**CERTAIN CONFIDENTIAL INFORMATION MARKED BY [\*\*\*] HAS BEEN EXCLUDED FROM THIS EXHIBIT BECAUSE IT IS BOTH NOT MATERIAL AND IS THE TYPE THAT THE REGISTRANT TREATS AS PRIVATE OR CONFIDENTIAL.**

ORIGINALLY DATED 24 MAY 2019 AS AMENDED AND RESTATED ON THE FIRST EFFECTIVE DATE (AS DEFINED BELOW)		
	<b>ORCHARD THERAPEUTICS PLC as the Company</b>	
	- and -	
	<b>THE ENTITIES LISTED AS ORIGINAL GUARANTORS</b>	
	- and -	
	<b>MIDCAP FINANCIAL (IRELAND) LIMITED as Mandated Lead Arranger</b>	
	- and -	
	<b>MIDCAP FINANCIAL (IRELAND) LIMITED acting as Agent</b>	
	- and -	
	<b>MIDCAP FINANCIAL (IRELAND) LIMITED acting as Security Agent</b>	
<b>SENIOR TERM FACILITIES AGREEMENT ORIGINALLY DATED 24 MAY 2019 AS AMENDED AND RESTATED ON THE FIRST EFFECTIVE DATE (AS DEFINED BELOW)</b>		
0000Matter ref 036639/000096F3A/GIBSONSC/6340698Hogan Lovells International LLPAtlantic House, Holborn Viaduct, London EC1A 2FG		

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THIS AGREEMENT is originally dated 24 May 2019 as amended and restated on the First Effective Date (as defined below)

**BETWEEN:**

- (1) **Orchard Therapeutics plc**, a company incorporated in England and Wales with company number 11494381 (the "**Company**");
- (2) **The entity** listed in Part 1 of Schedule 1 (*The Original Parties*) as original borrower (the "**Original Borrower**");
- (3) **The entities** listed in Part 1 of Schedule 1 (*The Original Parties*) as original guarantors (the "**Original Guarantors**");
- (4) **Midcap Financial (Ireland) Limited** as mandated lead arranger (the "**Arranger**");
- (5) **The Financial Institutions** listed in Part 2 of Schedule 1 (*The Original Parties*) as lenders (the "**Original Lenders**");
- (6) **Midcap Financial (Ireland) Limited** as agent of the other Finance Parties (the "**Agent**"); and
- (7) **Midcap Financial (Ireland) Limited** as security trustee for the Secured Parties (the "**Security Agent**").

**IT IS AGREED:**

**SECTION 1**

**INTERPRETATION**

1. **DEFINITIONS AND INTERPRETATION**

1.1 **Definitions**

In this Agreement:

"**2021 Fee Letter**" means the fee letter dated on or about the First Effective Date between the Agent and the Company.

"**Acceptable Bank**" means:

- (a) a bank or financial institution which has a rating for its long-term unsecured and non-credit-enhanced debt obligations of BBB or higher by Standard & Poor's Rating Services or Fitch Ratings Ltd or Baa2 or higher by Moody's Investors Service Limited or a comparable rating from an internationally recognised credit rating agency; or
- (b) any other bank or financial institution approved by the Agent.

"**Accession Deed**" means a document substantially in the form set out in Schedule 6 (*Form of Accession Deed*).

"**Accounting Principles**" means GAAP.

"**Additional Borrower**" means a company which becomes a Borrower in accordance with Clause 26 (*Changes to the Obligors*).

**"Additional Guarantor"** means a company which becomes a Guarantor in accordance with Clause 26 (*Changes to the Obligors*).

**"Additional Obligor"** means an Additional Borrower or an Additional Guarantor.

**"Affiliate"** means, in relation to any person: (a) a Subsidiary of that person; (b) a Holding Company of that person or any other Subsidiary of that Holding Company; or (c) in the case of a Lender, any person which controls directly or indirectly that person.

**"Agent's Spot Rate of Exchange"** means:

- (a) the Agent's spot rate of exchange; or
- (b) (if the Agent does not have an available spot rate of exchange) any other publicly available spot rate of exchange selected by the Agent (acting reasonably),

for the purchase of the relevant currency with the Base Currency in the London foreign exchange market at or about 11:00 am on a particular day.

**"Agreed Security Principles"** means the principles set out in Schedule 11 (*Agreed Security Principles*).

**"Annual Financial Statements"** has the meaning given to that term in Clause 21 (*Information Undertakings*).

**"Assignment Agreement"** means an agreement substantially in the form set out in Schedule 5 (*Form of Assignment Agreement*) or any other form agreed between the relevant assignor and assignee.

**"Authorisation"** means an authorisation, consent, approval, resolution, licence, exemption, filing, notarisation or registration.

**"Authority"** means any of the United Nations, the European Union, Her Majesty's Treasury, the Department for Business, Innovation and Skills or any other UK government authority, any European Union member state, or the United States government.

**"Availability Period"** means:

- (a) in relation to Facility A1, the period from and including the Original Effective Date to and including the date falling two Business Days after the Original Effective Date;
- (b) in relation to Facility A2, the period from and including the First Effective Date to and including the date falling two Business Days after the First Effective Date;
- (c) in relation to Facility B, the period from and including 1 July 2022 to and including 1 July 2023; and
- (d) in relation to Facility C, the period from and including 1 July 2023 to and including 1 July 2024.

**"Available Commitment"** means, in relation to a Facility, a Lender's Commitment under that Facility minus (subject as set out below):

- (a) the amount of its participation in any outstanding Utilisations under that Facility; and

- (b) in relation to any proposed Utilisation, the amount of its participation in any other Utilisations that are due to be made under that Facility on or before the proposed Utilisation Date.

**"Available Facility"** means, in relation to a Facility, the aggregate for the time being of each Lender's Available Commitment in respect of that Facility.

**"Bank Levy"** means the UK bank levy as set out in the Finance Act 2011 or any tax in any jurisdiction levied on a materially similar basis, in each case, as in force as at the Original Effective Date.

**"Base Case Model"** means the budget of the Group for the Financial Year ending on 31 December 2019.

**"Base Currency"** means US dollars.

**"Base Currency Equivalent"** means, the amount of the relevant currency required to purchase the relevant amount of the Base Currency at the Agent's Spot Rate of Exchange.

**"BLA"** means a biologics license application (as defined in the Public Health Services Act, 42 U.S.C. § 262) for authorization to introduce, or deliver for introduction, a biologic product into commerce in the U.S., or any successor application or procedure.

**"Borrower"** means an Original Borrower or an Additional Borrower unless it has ceased to be a Borrower in accordance with Clause 26 (*Changes to the Obligors*).

**"Break Costs"** means the amount (if any) by which:

- (a) the interest, excluding the Margin, which a Lender should have received for the period from the date of receipt of all or any part of its participation in a Loan or Unpaid Sum to the last day of the current Interest Period in respect of that Loan or Unpaid Sum, had the principal amount or Unpaid Sum received been paid on the last day of that Interest Period;

exceeds:

- (b) the amount which that Lender would be able to obtain by placing an amount equal to the principal amount or Unpaid Sum received by it on deposit with a leading bank for a period starting on the Business Day following receipt or recovery and ending on the last day of the current Interest Period.

**"Budget"** means:

- (a) in relation to the period beginning on the Original Effective Date and ending on 31 December 2019, the Base Case Model to be delivered by the Company to the Agent pursuant to Clause 4.1 (*Initial conditions precedent*); and
- (b) in relation to any other period, any budget delivered by the Company to the Agent in respect of that period pursuant to Clause 21.4 (*Budget*).

**"Business Day"** means a day (other than a Saturday or Sunday) on which banks are open for general business in London and New York.

**"Cash Equivalent Investments"** means at any time:

- (a) certificates of deposit maturing within one year after the relevant date of calculation and issued by an Acceptable Bank;

- (b) any investment in marketable debt obligations issued or guaranteed by the government of the United States, the United Kingdom, any member state of the European Economic Area or any Participating Member State or by an instrumentality or agency of any of them having an equivalent credit rating, maturing within one year after the relevant date of calculation and not convertible or exchangeable to any other security;
- (c) commercial paper not convertible or exchangeable to any other security:
  - (i) for which a recognised trading market exists;
  - (ii) issued by an issuer incorporated in the United States, the United Kingdom, any member state of the European Economic Area or any Participating Member State;
  - (iii) which matures within one year after the relevant date of calculation; and
  - (iv) which has a credit rating of either A-1 or higher by Standard & Poor's Rating Services or F-1 or higher by Fitch Ratings Ltd or P-1 or higher by Moody's Investors Service Limited, or, if no rating is available in respect of the commercial paper, the issuer of which has, in respect of its long-term unsecured and non-credit enhanced debt obligations, an equivalent rating;
- (d) Sterling bills of exchange eligible for rediscount at the Bank of England and accepted by an Acceptable Bank (or their dematerialised equivalent);
- (e) any investment in money market funds which:
  - (i) have a credit rating of either A-1 or higher by Standard & Poor's Rating Services or F-1 or higher by Fitch Ratings Ltd or P-1 or higher by Moody's Investors Service Limited; and
  - (ii) invest substantially all their assets in securities of the types described in sub-paragraphs (a) to (d) above,
  - (iii) to the extent that investment can be turned into cash on not more than 30 days' notice;
- (f) any investment made in accordance with the Investment Policy; or
- (g) any other debt security approved by the Majority Lenders,

in each case, to which any member of the Group is alone (or together with other any members of the Group) beneficially entitled at that time and which is not issued or guaranteed by any member of the Group or subject to any Security (other than Security arising under the Transaction Security Documents).

**"Cash Proceeds"** means proceeds of the Charged Property which are in the form of cash.

**"Change of Control"** means any person or group of persons acting in concert gains direct or indirect Control of the Company, where **"acting in concert"** means a group of persons who, pursuant to an agreement or understanding (whether formal or informal), actively co-operate, through the acquisition directly or indirectly of shares in the Company by any of them, either directly or indirectly, to obtain or consolidate control of the Company.

**"Charged Property"** means all of the assets of the Group which from time to time are, or are expressed to be, the subject of the Transaction Security.

**"Chief Financial Officer"** means the principal financial officer of the Company from time to time (or any director or officer of the Company acting as such officer's deputy in that capacity or performing those functions).

**"Closing Date"** means the date on which first Utilisation under this Agreement occurs.

**"Code"** means the US Internal Revenue Code of 1986.

**"Commitment"** means a Facility A Commitment, a Facility B Commitment or a Facility C Commitment.

**"Commodity Exchange Act"** means the Commodity Exchange Act (7 U.S.C. § 1 et seq.), as amended from time to time, and any successor statute.

**"Common Currency Amount"** means, in relation to an amount, that amount converted (to the extent not already denominated in the Base Currency) into the Base Currency at the Security Agent's Spot Rate of Exchange on the Business Day prior to the relevant calculation.

**"Company's Auditors"** means PricewaterhouseCoopers LLP or any other firm appointed by the Company to act as its statutory auditors.

**"Competitor"** means, at any time of determination, any person engaged in the same or substantially the same line of business as the Group and such business accounts for all or substantially all the revenue or net income of such person at the time of such determination.

**"Compliance Certificate"** means a certificate substantially in the form set out in Schedule 8 (*Form of Compliance Certificate*).

**"Confidential Information"** means all information relating to the Company, any Obligor, the Group, the Finance Documents or a Facility of which a Finance Party becomes aware in its capacity as, or for the purpose of becoming, a Finance Party or which is received by a Finance Party in relation to, or for the purpose of becoming a Finance Party under, the Finance Documents or a Facility from either:

- (a) any member of the Group or any of its advisers; or
- (b) another Finance Party, if the information was obtained by that Finance Party directly or indirectly from any member of the Group or any of its advisers,

in whatever form, and includes information given orally and any document, electronic file or any other way of representing or recording information which contains or is derived or copied from such information but excludes:

- (i) information that:
  - (1) is or becomes public information other than as a direct or indirect result of any breach by that Finance Party of Clause 38.1 (*Confidentiality*); or
  - (2) is identified in writing at the time of delivery as non-confidential by any member of the Group or any of its advisers; or

- (3) is known by that Finance Party before the date the information is disclosed to it in accordance with paragraphs (a) or (b) above or is lawfully obtained by that Finance Party after that date, from a source which is, as far as that Finance Party is aware, unconnected with the Group and which, in either case, as far as that Finance Party is aware, has not been obtained in breach of, and is not otherwise subject to, any obligation of confidentiality; and
- (ii) any Funding Rate or Reference Bank Quotation.

"**Confidentiality Undertaking**" means a confidentiality undertaking substantially in a recommended form of the LMA for the relevant type of proposed transaction or in any other form agreed between the Company and the Agent.

"**Constitutional Documents**" means the constitutional documents of the Company.

"**Contribution Notice**" means a contribution notice issued by the Pensions Regulator under section 38 or section 47 of the Pensions Act 2004.

"**Control**" means:

- (a) the power (whether by way of ownership of shares, proxy, contract, agency or otherwise) to:
  - (i) cast, or control the casting of, more than 50% of the maximum number of votes that might be cast at a general meeting of an entity;
  - (ii) appoint or remove all, or the majority, of the directors or other equivalent officers of an entity; or
  - (iii) give directions with respect to the operating and financial policies of an entity with which the directors or other equivalent officers of that entity are obliged to comply; or
- (b) the holding beneficially of more than 50% of the issued share capital of an entity (excluding any part of that issued share capital that carries no right to participate beyond a specified amount in a distribution of either profits or capital).

"**CTA**" means the Corporation Tax Act 2009.

"**Declared Default**" means: (a) an Event of Default in respect of which the Agent has exercised any of its rights under Clause 24.18 (*Acceleration*); or (b) in relation to any US Obligor, automatic acceleration pursuant to (i) Clause 24.19 (*Acceleration for US insolvency proceedings*) of this Agreement as a result of an Event of Default by such US Obligor under Clause 24.17 (*US insolvency proceedings*) of this Agreement.

"**Default**" means an Event of Default or any event or circumstance specified in Clause 24 (*Events of Default*) which would (with the expiry of a grace period, the giving of notice, the making of any determination under the Finance Documents or any combination of any of the foregoing) be an Event of Default.

"**Defaulting Lender**" means any Lender:

- (a) which has failed to make its participation in a Loan available or has notified the Agent or the Company (which has notified the Agent) that it will not make its participation in a Loan available by the Utilisation Date of that Loan in accordance

with Clause 5.4 (*Lenders' participation*) or which has failed to provide cash collateral;

- (b) which has otherwise rescinded or repudiated a Finance Document; or
- (c) with respect to which a Finance Party Insolvency Event has occurred and is continuing,

unless, in the case of paragraph (a):

- (i) its failure to pay is caused by:
  - (1) administrative or technical error; or
  - (2) a Disruption Event; andpayment is made within 5 Business Days of its due date; or
- (ii) the Lender is disputing in good faith whether it is contractually obliged to make the payment in question.

**"Delegate"** means any delegate, agent, attorney or co-trustee appointed by the Security Agent.

**"Designated Parties List"** means the Specially Designated Nationals List, the Sectoral Sanctions Identifications List and the Foreign Sanctions Evaders List maintained by the Office of Foreign Assets Control of the US Department of the Treasury, or any similar list of sanctioned persons or entities maintained by any Authority.

**"Disposal"** has the meaning given to that term in Clause 8.2 (*Disposal, Insurance and Acquisition Proceeds*).

**"Disruption Event"** means either or both of:

- (a) a material disruption to those payment or communications systems or to those financial markets which are, in each case, required to operate in order for payments to be made in connection with the Facilities (or otherwise in order for the transactions contemplated by the Finance Documents to be carried out) which disruption is not caused by, and is beyond the control of, any of the Parties; or
- (b) the occurrence of any other event which results in a disruption (of a technical or systems-related nature) to the treasury or payments operations of a Party preventing that, or any other Party:
  - (i) from performing its payment obligations under the Finance Documents; or
  - (ii) from communicating with other Parties in accordance with the terms of the Finance Documents,and which (in either such case) is not caused by, and is beyond the control of, the Party whose operations are disrupted.

**"Dormant Subsidiary"** means a member of the Group which is not an Obligor and does not:

- (a) own, legally or beneficially, gross assets (including indebtedness owed to it) which in aggregate have a value of \$10,000,000 or more (or its Base Currency Equivalent); or
- (b) have liabilities in excess of \$10,000,000 (or its Base Currency Equivalent).

**"Eligible Institution"** means any Lender or other bank, financial institution, trust, fund or other entity selected by the Company and which, in each case, is not a member of the Group.

**"EMA"** means the European Medicines Agency and any successor agency thereof.

**"Environment"** means humans, animals, plants and all other living organisms including the ecological systems of which they form part and the following media:

- (a) air (including, without limitation, air within natural or man-made structures, whether above or below ground);
- (b) water (including, without limitation, territorial, coastal and inland waters, water under or within land and water in drains and sewers); and
- (c) land (including, without limitation, land under water).

**"Environmental Claim"** means any claim, proceeding, formal notice or investigation by any person in respect of any Environmental Law.

**"Environmental Law"** means any applicable law or regulation which relates to:

- (a) the pollution or protection of the Environment;
- (b) the conditions of the workplace; or
- (c) the generation, handling, storage, use, release or spillage of any substance which, alone or in combination with any other, is capable of causing harm to the Environment, including, without limitation, any waste.

**"Environmental Permits"** means any permit or other Authorisation or the filing of any notification, report or assessment required under any Environmental Law for the operation of the business of any member of the Group conducted on or from the properties owned or used by any member of the Group.

**"ERISA"** means the United States Employee Retirement Income Security Act of 1974, as amended from time to time, and the regulations promulgated and the rulings issued thereunder;

**"ERISA Affiliate"** means any person treated as a single employer with any Obligor for the purpose of sections 414(b), (c), (m) or (o) of the Code.

**"ERISA Event"** means:

- (a) a reportable event specified as such in Section 4043 of ERISA and the regulations issued thereunder with respect to any Plan, other than an event in relation to which the requirement to give notice of that event is waived by any regulation;
- (b) the failure to meet the minimum funding standard under sections 412 of the Code with respect to any Plan, whether or not waived in accordance with Section 412(c) of the Code;



- (c) the provision by the administrator of any Plan pursuant to Section 4041(a)(2) of ERISA of a notice of intent to terminate such Plan in a distress termination described in Section 4041(c) of ERISA;
- (d) the institution of proceedings under Section 4042 of ERISA by the PBGC for the termination of, or the appointment of a trustee to administer, any Plan;
- (e) the incurrence of any liability under Title IV of ERISA with respect to the termination of any Plan or withdrawal from any Plan (other than premiums due and not delinquent under Section 4007 of ERISA);
- (f) the incurrence by any Obligor or any of its ERISA Affiliates of any liability with respect to the withdrawal or partial withdrawal from any Multiemployer Plan;
- (g) the receipt by any Obligor or any ERISA Affiliate of any notice that a Multiemployer Plan is insolvent or in reorganisation, within the meaning of Title IV of ERISA; or
- (h) the determination that any Plan is in "at risk status" (within the meaning of Section 430 of the Code and Section 303 of ERISA);
- (i) the requirement that a Plan provide security pursuant to Section 436(f) of the Code;
- (j) engagement in a "prohibited transaction" within the meaning of Section 406 of ERISA and Section 4975 of the Code with respect to any Plan; or
- (k) the institution of a proceeding by a fiduciary of any Multiemployer Plan to enforce Section 515 of ERISA which proceeding is not dismissed within 30 days.

"**Excluded Account**" has the meaning given to that term in the New York law Transaction Security Documents.

"**Excluded Swap Obligation**" means, with respect to any Obligor, any Swap Obligation if, and to the extent that, all or a portion of the guaranty of such Obligor of (including by virtue of the joint and several liability provisions contained herein), or the grant by such Obligor of a security interest to secure, such Swap Obligation (or any guaranty thereof) is or becomes illegal under the Commodity Exchange Act or any rule, regulation or order of the Commodity Futures Trading Commission (or the application or official interpretation of any thereof) by virtue of such Obligor's failure for any reason to constitute an "eligible contract participant" as defined in the Commodity Exchange Act and the regulations thereunder at the time the guaranty of such Obligor or the grant of such security interest becomes effective with respect to such Swap Obligation. If a Swap Obligation arises under a master agreement governing more than one swap, such exclusion shall apply only to the portion of such Swap Obligation that is attributable to swaps for which such guaranty or security interest is or becomes illegal.

"**Event of Default**" means any event or circumstance specified as such in Clause 24 (*Events of Default*).

"**Facility**" means Facility A, Facility B or Facility C.

"**Facility A**" means the term loan facility made available under this Agreement as described in sub-paragraphs (a) and (b) of Clause 2.1 (*The Facilities*), and consisting of Facility A1 and Facility A2.

"**Facility A Commitment**" means a Facility A1 Commitment and/or a Facility A2 Commitment.

**"Facility A Loan"** means a Facility A1 Loan and/or a Facility A2 Loan.

**"Facility A1"** means the tranche of Facility A which is made available by those Lenders with a Facility A1 Commitment.

**"Facility A1 Commitment"** means:

- (a) in relation to an Original Lender, the amount in the Base Currency set opposite its name under the heading "**Facility A1 Commitment**" in Part 2 of Schedule 1 (*The Original Parties*) and the amount in the Base Currency of any other Facility A1 Commitment transferred to it under this Agreement or assumed by it in accordance with Clause 2.2 (*Increase*); and
- (b) in relation to any other Lender, the amount in the Base Currency of any Facility A1 Commitment transferred to it under this Agreement or assumed by it in accordance with Clause 2.2 (*Increase*),

to the extent not cancelled, reduced or transferred by it under this Agreement.

**"Facility A1 Loan"** means a loan made or to be made under Facility A1 or the principal amount outstanding for the time being of that loan.

**"Facility A2"** means the tranche of Facility A which is made available by those Lenders with a Facility A2 Commitment.

**"Facility A2 Commitment"** means:

- (a) in relation to an Original Lender, the amount in the Base Currency set opposite its name under the heading "**Facility A2 Commitment**" in Part 2 of Schedule 1 (*The Original Parties*) and the amount in the Base Currency of any other Facility A2 Commitment transferred to it under this Agreement or assumed by it in accordance with Clause 2.2 (*Increase*); and
- (b) in relation to any other Lender, the amount in the Base Currency of any Facility A2 Commitment transferred to it under this Agreement or assumed by it in accordance with Clause 2.2 (*Increase*),

to the extent not cancelled, reduced or transferred by it under this Agreement.

**"Facility A2 Loan"** means a loan made or to be made under Facility A2 or the principal amount outstanding for the time being of that loan.

**"Facility B"** means the term loan facility made available under this Agreement as described in sub-paragraph (c) of Clause 2.1 (*The Facilities*).

**"Facility B Commitment"** means:

- (a) in relation to an Original Lender, the amount in the Base Currency set opposite its name under the heading "Facility B Commitment" in Part 2 of Schedule 1 (*The Original Parties*) and the amount in the Base Currency of any other Facility B Commitment transferred to it under this Agreement or assumed by it in accordance with Clause 2.2 (*Increase*); and
- (b) in relation to any other Lender, the amount in the Base Currency of any Facility B Commitment transferred to it under this Agreement or assumed by it in accordance with Clause 2.2 (*Increase*),

to the extent not cancelled, reduced or transferred by it under this Agreement.

**"Facility B Loan"** means a loan made or to be made under Facility B or the principal amount outstanding for the time being of that loan.

**"Facility C"** means the term loan facility made available under this Agreement as described in sub-paragraph (d) of Clause 2.1 (*The Facilities*).

**"Facility C Commitment"** means:

- (a) in relation to an Original Lender, the amount in the Base Currency set opposite its name under the heading "Facility C Commitment" in Part 2 of Schedule 1 (*The Original Parties*) and the amount in the Base Currency of any other Facility C Commitment transferred to it under this Agreement or assumed by it in accordance with Clause 2.2 (*Increase*); and
- (b) in relation to any other Lender, the amount in the Base Currency of any Facility C Commitment transferred to it under this Agreement or assumed by it in accordance with Clause 2.2 (*Increase*),

to the extent not cancelled, reduced or transferred by it under this Agreement.

**"Facility C Loan"** means a loan made or to be made under Facility C or the principal amount outstanding for the time being of that loan.

**"Facility Office"** means:

- (a) in respect of a Lender, the office or offices notified by that Lender to the Agent in writing on or before the date it becomes a Lender (or, following that date, by not less than five Business Days' written notice) as the office or offices through which it will perform its obligations under this Agreement; or
- (b) in respect of any other Finance Party, the office in the jurisdiction in which it is resident for tax purposes.

**"FATCA"** means:

- (a) sections 1471 to 1474 of the Code or any associated regulations; or
- (b) any treaty, law or regulation of any other jurisdiction, or relating to an intergovernmental agreement between the US and any other jurisdiction, which (in either case) facilitates the implementation of any law or regulation referred to in paragraph (a) above; or
- (c) any agreement pursuant to the implementation of any treaty, law or regulation referred to in paragraphs (a) or (b) above with the US Internal Revenue Service, the US government or any governmental or taxation authority in any other jurisdiction.

**"FATCA Application Date"** means:

- (a) in relation to a "withholdable payment" described in section 1473(1)(A)(i) of the Code (which relates to payments of interest and certain other payments from sources within the US), 1 July 2014; or
- (b) in relation to a "passthru payment" described in section 1471(d)(7) of the Code not falling within paragraph (a) above, the first date from which such payment may become subject to a deduction or withholding required by FATCA.

**"FATCA Deduction"** means a deduction or withholding from a payment under a Finance Document required by FATCA.

**"FATCA Exempt Party"** means a Party that is entitled to receive payments free from any FATCA Deduction.

**"FDA"** means the Food and Drug Administration of the United States, any comparable state, provincial or local governmental authority or regulator, and any successor agency of any of the foregoing.

**"FDCA"** means the Federal Food, Drug and Cosmetic Act, as amended, 21 U.S.C. Section 301 *et seq.*, and all regulations promulgated thereunder.

**"Fee Letter"** means:

- (a) any letter or letters dated on or about Original Effective Date between the Arranger and the Company (or the Agent and the Company or the Security Agent and the Company) setting out any of the fees referred to in Clause 13 (*Fees*);
- (b) the 2021 Fee Letter; and
- (c) any agreement setting out fees payable to a Finance Party referred to in paragraph (f) of Clause 2.2 (*Increase*).

**"Finance Document"** means this Agreement, the First Amendment and Restatement Agreement, any Accession Deed, any Compliance Certificate, any Fee Letter, any Resignation Letter, any Selection Notice, any Transaction Security Document, any Utilisation Request and any other document designated as a "Finance Document" by the Agent and the Company.

**"Finance Lease"** means any lease or hire purchase contract, a liability under which would, in accordance with the Accounting Principles, be treated as a balance sheet liability.

**"Finance Party"** means the Agent, the Arranger, the Security Agent or a Lender.

**"Finance Party Insolvency Event"** in relation to an entity means that the entity:

- (a) is dissolved (other than pursuant to a consolidation, amalgamation or merger);
- (b) becomes insolvent or is unable to pay its debts or fails or admits in writing its inability generally to pay its debts as they become due;
- (c) makes a general assignment, arrangement or composition with or for the benefit of its creditors;
- (d) institutes or has instituted against it, by a regulator, supervisor or any similar official with primary insolvency, rehabilitative or regulatory jurisdiction over it in the jurisdiction of its incorporation or organisation or the jurisdiction of its head or home office, a proceeding seeking a judgment of insolvency or bankruptcy or any other relief under any bankruptcy or insolvency law or other similar law affecting creditors' rights, or a petition is presented for its winding-up or liquidation by it or such regulator, supervisor or similar official;
- (e) has instituted against it a proceeding seeking a judgment of insolvency or bankruptcy or any other relief under any bankruptcy or insolvency law or other similar law affecting creditors' rights, or a petition is presented for its winding-up or liquidation, and, in the case of any such proceeding or petition instituted or

presented against it, such proceeding or petition is instituted or presented by a person or entity not described in paragraph (d) above and:

- (i) results in a judgment of insolvency or bankruptcy or the entry of an order for relief or the making of an order for its winding-up or liquidation; or
  - (ii) is not dismissed, discharged, stayed or restrained in each case within 30 days of the institution or presentation thereof;
- (f) has exercised in respect of it one or more of the stabilisation powers pursuant to Part 1 of the Banking Act 2009 and/or has instituted against it a bank insolvency proceeding pursuant to Part 2 of the Banking Act 2009 or a bank administration proceeding pursuant to Part 3 of the Banking Act 2009;
  - (g) has a resolution passed for its winding-up, official management or liquidation (other than pursuant to a consolidation, amalgamation or merger);
  - (h) seeks or becomes subject to the appointment of an administrator, provisional liquidator, conservator, receiver, trustee, custodian or other similar official for it or for all or substantially all its assets (other than, for so long as it is required by law or regulation not to be publicly disclosed, any such appointment which is to be made, or is made, by a person or entity described in paragraph (d) above);
  - (i) has a secured party take possession of all or substantially all its assets or has a distress, execution, attachment, sequestration or other legal process levied, enforced or sued on or against all or substantially all its assets and such secured party maintains possession, or any such process is not dismissed, discharged, stayed or restrained, in each case within 30 days thereafter;
  - (j) causes or is subject to any event with respect to it which, under the applicable laws of any jurisdiction, has an analogous effect to any of the events specified in paragraphs (a) to (i) above; or
  - (k) takes any action in furtherance of, or indicating its consent to, approval of, or acquiescence in, any of the foregoing acts.

**"Financial Indebtedness"** means any indebtedness for or in respect of:

- (a) moneys borrowed and debit balances at banks or other financial institutions;
- (b) any acceptance under any acceptance credit or bill discounting facility or dematerialised equivalent;
- (c) any note purchase facility or the issue of bonds (but not Trade Instruments), notes, debentures, loan stock or any similar instrument;
- (d) the amount of any liability in respect of Finance Leases;
- (e) receivables sold or discounted (other than any receivables to the extent they are sold on a non-recourse basis);
- (f) any Treasury Transaction (and, when calculating the value of that Treasury Transaction, only the marked to market value (or, if any actual amount is due as a result of the termination or close-out of that Treasury Transaction, that amount) shall be taken into account);

- (g) any counter-indemnity obligation in respect of a guarantee, bond, standby or documentary letter of credit or any other instrument issued by a bank or financial institution in respect of:
  - (i) an underlying liability (but not, in any case, Trade Instruments) of an entity which is not a member of the Group which liability would fall within one of the other paragraphs of this definition; or
  - (ii) any liabilities of any member of the Group relating to any post-retirement benefit scheme;
- (h) any amount raised by the issue of shares which are redeemable (other than at the option of the issuer) before the Termination Date or are otherwise classified as borrowings under the Accounting Principles;
- (i) any amount raised under any other transaction (including any forward sale or purchase, sale and sale back or sale and leaseback agreement) having the commercial effect of a borrowing or otherwise classified as borrowings under the Accounting Principles; and
- (j) the amount of any liability in respect of any guarantee for any of the items referred to in paragraphs (a) to (i) above.

**"Financial Quarter"** means the period commencing on the day after one Quarter Date and ending on the next Quarter Date.

**"Financial Support Direction"** means a financial support direction issued by the Pensions Regulator under Section 43 of the Pensions Act 2004.

**"Financial Year"** means the annual accounting period of the Group ending on or about 31 December in each year.

**"First Amendment and Restatement Agreement"** means the amendment and restatement agreement amending and restating this Agreement and made between, amongst others, the Company, the Agent and the Security Agent dated 28 May 2021".

**"First Effective Date"** means the date upon which the Agent gives written confirmation to the Company that the Agent has received (or has waived its requirement to receive) all of the documents and/or evidence set out in Schedule 3 (*Conditions Precedent*) of the First Amendment and Restatement Agreement, in each case in form and substance satisfactory to the Agent.

**"Funding Rate"** means any individual rate notified by a Lender to the Agent pursuant to paragraph (a)(ii) of Clause 12.4 (*Cost of funds*).

**"GAAP"** means generally accepted accounting principles in the United States as at the Original Effective Date.

**"Group"** means the Company and each of its Subsidiaries for the time being.

**"Group Structure Chart"** means the group structure chart showing the Group as at the Original Effective Date.

**"Group Unrestricted Cash"** means cash and Cash Equivalent Investments made pursuant to the Investment Policy of the Group that:

- (a) are subject to a first priority perfected Security in favour of Security Agent and that are not subject to any other Security (other than Permitted Security);
- (b) are held in a bank account which satisfies the requirements of Section 9.1 of the Agreed Security Principals; and
- (c) are not funds for the payment of a drawn or committed but unpaid draft, ACH or EFT transaction.

**"Guarantor"** means an Original Guarantor or an Additional Guarantor unless it has ceased to be a Guarantor in accordance with Clause 26 (*Changes to the Obligors*).

**"Holding Company"** means, in relation to a person, any other person in respect of which it is a Subsidiary.

**"Impaired Agent"** means the Agent at any time when:

- (a) it has failed to make (or has notified a Party that it will not make) a payment required to be made by it under the Finance Documents by the due date for payment;
- (b) the Agent otherwise rescinds or repudiates a Finance Document;
- (c) (if the Agent is also a Lender) it is a Defaulting Lender under paragraph (a), (b) or (c) of the definition of "Defaulting Lender"; or
- (d) a Finance Party Insolvency Event has occurred and is continuing with respect to the Agent;

unless, in the case of paragraph (a) above:

- (i) its failure to pay is caused by:
  - (1) administrative or technical error; or
  - (2) a Disruption Event; andpayment is made within 5 Business Days of its due date; or
- (ii) the Agent is disputing in good faith whether it is contractually obliged to make the payment in question.

**"Increase Confirmation"** means a confirmation substantially in the form set out in Schedule 10 (*Form of Increase Confirmation*).

**"Increase Lender"** has the meaning given to that term in Clause 2.2 (*Increase*).

**"Intellectual Property"** means:

- (a) any patents, trademarks, service marks, designs, business names, copyrights, database rights, design rights, domain names, moral rights, inventions, confidential information, knowhow and other intellectual property rights and interests (which may now or in the future subsist), whether registered or unregistered; and
- (b) the benefit of all applications and rights to use such assets of each member of the Group (which may now or in the future subsist).

**"Interest Period"** means, in relation to a Loan, each period determined in accordance with Clause 11 (*Interest Periods*) and, in relation to an Unpaid Sum, each period determined in accordance with Clause 10.3 (*Default interest*).

**"Interpolated Screen Rate"** means, in relation to any Loan, the rate which results from interpolating on a linear basis between:

- (a) the applicable Screen Rate for the longest period (for which that Screen Rate is available) which is less than the Interest Period of that Loan; and
- (b) the applicable Screen Rate for the shortest period (for which that Screen Rate is available) which exceeds the Interest Period of that Loan,

each as of the Specified Time for the currency of that Loan.

**"ITA"** means the Income Tax Act 2007.

**"Investment Policy"** means the investment policy of the Obligors dated 7 February 2018, as amended from time to time by the Obligors.

**"Joint Venture"** means any joint venture entity, whether a company, unincorporated firm, undertaking, association, joint venture or partnership or any other entity.

**"Lead Product"** means each of [\*\*\*], and any other Product mutually agreed between Agent and Borrower, acting reasonably, provided, however, in no event will any of [\*\*\*] be a "Lead Product".

**"Legal Opinion"** means any legal opinion delivered to the Agent under Clause 4.1 (*Initial conditions precedent*) or Clause 26 (*Changes to the Obligors*).

**"Legal Reservations"** means:

- (a) the principle that equitable remedies may be granted or refused at the discretion of a court and the limitation of enforcement by laws relating to insolvency, reorganisation and other laws generally affecting the rights of creditors;
- (b) the time barring of claims under the Limitation Acts, the possibility that an undertaking to assume liability for or indemnify a person against non-payment of UK stamp duty may be void and defences of set-off or counterclaim; and
- (c) similar principles, rights and defences under the laws of any Relevant Jurisdiction.

**"Lender"** means:

- (a) any Original Lender; and
- (b) any bank, financial institution, trust, fund or other entity which has become a Party as a "Lender" in accordance with Clause 2.2 (*Increase*) or Clause 25 (*Changes to the Lenders*),

which in each case has not ceased to be a Party as such in accordance with the terms of this Agreement.

**"LIBOR"** means, in relation to any Loan:

- (a) the applicable Screen Rate as of the Specified Time for the currency of that Loan and for a period equal in length to the Interest Period of that Loan; or



(b) as otherwise determined pursuant to Clause 12.1 (*Unavailability of Screen Rate*),

and, if that rate is less than one per cent, LIBOR shall be deemed to be one per cent.

**"Lien"** means, with respect to any asset, any mortgage, leasehold mortgage, lien, pledge, charge, security interest, hypothecation, or encumbrance of any kind in respect of such asset. For the purposes of this Agreement, Person shall be deemed to own any asset subject to a Lien which it has acquired or holds subject to the interest of a vendor or lessor under any conditional sale agreement, capital lease obligation or other title retention agreement relating to such asset.

**"Limitation Acts"** means the Limitation Act 1980 and the Foreign Limitation Periods Act 1984.

**"LMA"** means the Loan Market Association.

**"Loan"** means a Facility A Loan, a Facility B Loan or a Facility C Loan.

**"Majority Lenders"** means a Lender or Lenders whose Commitments aggregate more than 66 $\frac{2}{3}$  per cent. of the Total Commitments (or, if the Total Commitments have been reduced to zero, aggregated more than 66 $\frac{2}{3}$  per cent. of the Total Commitments immediately prior to that reduction).

**"Marketing Authorization Application"** means, with respect to [\*\*\*] or [\*\*\*], the application for Regulatory Approval required by applicable laws to sell [\*\*\*] or [\*\*\*], as applicable, in a country or region.

**"Margin"** means:

- (a) in relation to any Facility A Loan 5.95 per cent per annum;
- (b) in relation to any Facility B Loan 5.95 per cent per annum; and
- (c) in relation to any Facility C Loan 5.95 per cent per annum.

**"Material Adverse Effect"** means a material adverse effect on:

- (a) the business, operations, property or condition (financial or otherwise) of the Group taken as a whole; or
- (b) the ability of the Obligors to perform their payment obligations under the Finance Documents; or
- (c) the validity or enforceability of, or the effectiveness or ranking of any Security granted or purporting to be granted pursuant to any of, the Finance Documents.

**"Month"** means a period starting on one day in a calendar month and ending on the numerically corresponding day in the next calendar month, except that:

- (a) (subject to paragraph (c) below) if the numerically corresponding day is not a Business Day, that period shall end on the next Business Day in that calendar month in which that period is to end if there is one, or if there is not, on the immediately preceding Business Day;
- (b) if there is no numerically corresponding day in the calendar month in which that period is to end, that period shall end on the last Business Day in that calendar month; and

- (c) if an Interest Period begins on the last Business Day of a calendar month, that Interest Period shall end on the last Business Day in the calendar month in which that Interest Period is to end.

The above rules will only apply to the last Month of any period.

**"Monthly Cash Burn Amount"** means an amount equal to the Group's change in cash and Cash Equivalent Investments, without giving effect to any increase resulting from contributions or proceeds of financings, for either:

- (a) the six month period ending on the last day of the month immediately preceding the proposed completion of the Permitted Acquisition and based upon the financial statements delivered to Agent in accordance with this Agreement for such period; or
- (b) the six month period immediately following the six month period referred to in paragraph (a) above and based upon the Transaction Projections (as defined in the definition of "Permitted Acquisition"),

using whichever calculation as between clause (a) and clause (b) demonstrates a higher burn rate (or, in other words, more cash used), in either case, divided by six.

**"Multiemployer Plan"** means a "multiemployer plan" within the meaning of Section 4001(a)(3) of ERISA which is covered by Title IV of ERISA and which is contributed to (or to which there is an obligation to contribute) by any Obligor or ERISA Affiliate.

**"Net Revenue"** means, for any period, the consolidated revenue of Obligors for such period, as determined in accordance with GAAP; provided that in no event shall Net Revenue include any upfront or milestone payments or similar non-recurring payment received by Obligors in connection with any out-bound license agreement or other commercial contract.

**"New Lender"** has the meaning given to that term in Clause 25 (*Changes to the Lenders*).

**"Non-US Subsidiary"** means any direct or indirect Subsidiary that is not organised under the laws of the United States or any state or territory thereof or the District of Columbia.

**"Obligations"** means all present and future obligations and liabilities (whether actual or contingent and whether owed jointly, severally or in any other capacity whatsoever) of the Obligors to the Finance Parties (or any of them) under the Finance Documents.

**"Obligor"** means the Company, the Borrower or a Guarantor.

**"Obligors' Agent"** means the Company, appointed to act on behalf of each Obligor in relation to the Finance Documents pursuant to Clause 2.4 (*Obligors' Agent*).

**"Original Effective Date"** means 24 May 2019.

**"Original Financial Statements"** means:

- (a) the audited consolidated financial statements of the Company for the Financial Year ended 31 December 2018; and
- (b) in relation to any other Obligor, its audited financial statements delivered to the Agent as required by Clause 26 (*Changes to the Obligors*).

**"Original Jurisdiction"** means, in relation to an Obligor, the jurisdiction under whose laws that Obligor is incorporated as at the Original Effective Date or, in the case of an Additional Obligor, as at the date on which that Additional Obligor becomes Party as a Borrower or a Guarantor (as the case may be).

**"Original Obligor"** means the Original Borrower or an Original Guarantor.

"[\*\*\*]" means [\*\*\*].

"[\*\*\*]" means [\*\*\*].

"[\*\*\*]" means [\*\*\*].

"[\*\*\*]" means [\*\*\*].

"[\*\*\*]" means [\*\*\*].

"[\*\*\*]" means [\*\*\*].

**"Participating Member State"** means any member state of the European Union that adopts or has adopted the euro as its lawful currency in accordance with legislation of the European Union relating to Economic and Monetary Union.

**"Party"** means a party to this Agreement.

**"PBGC"** means the United States Pension Benefit Guaranty Corporation or any successor to it.

**"Pensions Regulator"** means the body corporate called the Pensions Regulator established under Part 1 of the Pensions Act 2004.

**"Permitted Acquisition"** means:

- (a) an acquisition by a member of the Group of an asset sold, leased, transferred or otherwise disposed of by another member of the Group in circumstances constituting a Permitted Disposal;
- (b) an acquisition of shares or securities pursuant to a Permitted Share Issue;
- (c) an acquisition of securities which are Cash Equivalent Investments so long as, in the case of an Obligor, those Cash Equivalent Investments become subject to the Transaction Security as soon as is reasonably practicable;
- (d) the acquisition of stock in trade in the ordinary course of trading on arm's length terms (for the avoidance of doubt, excluding the acquisition (including through licensing) of any Product, Product line or Intellectual Property of or from any other person);
- (e) the incorporation of a company which on incorporation becomes a member of the Group, but only if:
  - (i) that company is incorporated in the European Union, the United Kingdom or the United States with limited liability; and
  - (ii) if the shares in the company are owned by an Obligor, Security over the shares of that company, in form and substance satisfactory to the Agent, is

created in favour of the Security Agent within 30 days of the date of its incorporation;

- (f) an acquisition (not being an acquisition by the Company), for cash consideration, (i) of all of the issued share capital of a limited liability company; (ii) of (if the acquisition is made by a limited liability company whose sole purpose is to make the acquisition) a business or undertaking carried on as a going concern; or (iii) (including through licensing) of any Product, Product line or Intellectual Property of or from any other person, but, in each case, only if:
  - (i) no Event of Default is continuing on the closing date for the acquisition or would occur as a result of the acquisition;
  - (ii) in the case of the acquisition of a company, business or undertaking, the acquired company, business or undertaking is incorporated or established, and carries on its principal business in the European Union, the United Kingdom or the United States and is engaged in a business substantially the same as or complementary to that carried on by the Group; and
  - (iii) in the case of an acquisition of a company, the acquired company becomes an Additional Guarantor and grants Transaction Security in accordance with Clause 26.2 (*Additional Guarantors*) within 30 days following the date of completion of the acquisition; and
- (g) any acquisition with the prior consent of the Majority Lenders.

**"Permitted Disposal"** means (apart from any transaction involving shares in any member of the Group, which is not a Permitted Disposal in any circumstances) any sale, lease, licence, surrender, transfer or other disposal which, except in the case of paragraph (c), is on arm's length terms:

- (a) of trading stock or cash made by any member of the Group in the ordinary course of business of the disposing entity;
- (b) of any Intellectual Property that does not relate to a Lead Product;
- (c) of any asset by a member of the Group (the "**Disposing Company**") to another member of the Group (the "**Acquiring Company**"), but if:
  - (i) the Disposing Company is an Obligor, the Acquiring Company must also be an Obligor;
  - (ii) the Disposing Company had given Security over the asset, the Acquiring Company must give equivalent Security over that asset; and
  - (iii) the Disposing Company is a Guarantor, the Acquiring Company must be a Guarantor guaranteeing at all times an amount no less than that guaranteed by the Disposing Company;
- (d) of tangible assets which are not expressed to be subject to a fixed charge, in exchange for other tangible assets comparable or superior as to type, value and quality;
- (e) of obsolete, surplus or redundant tangible assets on arm's length terms which are not required for the efficient operation of its business;

- (f) of Cash Equivalent Investments for cash or in exchange for other Cash Equivalent Investments;
- (g) so long as no Default or Event of Default has occurred and is continuing (or would result from such transaction), of cash or Cash Equivalent Investments to a Permitted Joint Venture, to the extent permitted by Clause 23.12 (*Joint Ventures*);
- (h) arising as a result of any Permitted Security;
- (i) to which the Majority Lenders have given their prior written consent (and this may include consent to a transaction including shares in any member of the Group); and
- (j) so long as no Default or Event of Default has occurred and is continuing (or would result from such transaction), of tangible assets (other than the disposal or exclusive licence of Intellectual Property) for cash where the higher of the market value and net consideration receivable (when aggregated with the higher of the market value and net consideration receivable for any other sale, lease, licence, transfer or other disposal not allowed under the preceding paragraphs or as a Permitted Transaction) does not exceed \$2,500,000 (or its equivalent) in any Financial Year of the Company.

**"Permitted Distribution"** means:

- (a) the payment of a dividend to the Company or any of its wholly-owned Subsidiaries;
- (b) dividends payable solely in common stock; and
- (c) repurchases of stock of former employees, directors or consultants pursuant to stock purchase agreements so long as an Event of Default is not continuing at the time of such repurchase and would not occur after giving effect to such repurchase, *provided*, however, that such repurchase does not exceed \$2,500,000 (or its equivalent) in any Financial Year of the Company.

**"Permitted Financial Indebtedness"** means Financial Indebtedness:

- (a) arising under a foreign exchange transaction for spot or forward delivery entered into in connection with protection against fluctuation in currency rates where that foreign exchange exposure arises in the ordinary course of trade, but not a foreign exchange transaction for investment or speculative purposes;
- (b) arising under a letter of credit, guarantee or indemnity, overdraft or credit card facility provided that the outstanding amount does not exceed \$10,000,000 (or its Base Currency Equivalent) in aggregate for the Group at any time;
- (c) arising under a Permitted Loan or a Permitted Guarantee or as permitted by Clause 23.31 (*Treasury Transactions*);
- (d) under Finance Leases of vehicles, plant, equipment or computers, provided that the aggregate capital value of all such items so leased under outstanding leases by members of the Group does not exceed \$10,000,000 (or its Base Currency Equivalent) at any time; and
- (e) not permitted by the preceding paragraphs or as a Permitted Transaction and the outstanding amount of which does not exceed \$5,000,000 (or its Base Currency Equivalent) in aggregate for the Group at any time.

**"Permitted Guarantee"** means:

- (a) the endorsement of negotiable instruments in the ordinary course of trade;
- (b) any performance or similar bond guaranteeing performance by a member of the Group under any contract entered into in the ordinary course of trade;
- (c) any guarantee of a Joint Venture to the extent permitted by Clause 23.12 (*Joint Ventures*);
- (d) any guarantee of Permitted Financial Indebtedness which is referred to in the definition of, or otherwise constitutes, Permitted Financial Indebtedness except under paragraph (d) of that definition;
- (e) any guarantee of a Permitted Loan, provided that no Obligor shall guarantee the Financial Indebtedness of any member of the Group which is not an Obligor unless the amount of the relevant guaranteed obligation is within the de minimis threshold in paragraph (e) of the definition of "Permitted Loan" at all times;
- (f) any guarantee given in respect of the netting or set-off arrangements permitted pursuant to paragraph (b) of the definition of "Permitted Security";
- (g) any indemnity given in the ordinary course of the documentation of an acquisition or disposal transaction which is a Permitted Acquisition or Permitted Disposal which indemnity is in a customary form and subject to customary limitations; and
- (h) guarantees not otherwise permitted by the preceding paragraphs, the aggregate principal outstanding amount guaranteed by which (when aggregated with all such other guarantees and with any Financial Indebtedness incurred by the Group) does not exceed \$2,500,000 at any time.

**"Permitted Joint Venture"** means any cash investment in any Joint Venture where:

- (a) the Joint Venture is incorporated, or established, and carries on its principal business in the European Union, the United Kingdom or the United States and is a vehicle incorporated with limited liability;
- (b) the Joint Venture is engaged in a business substantially the same as, or complementary to that carried on by the Group; and
- (c) in any Financial Year of the Company, the aggregate of:
  - (i) all amounts subscribed for shares in, lent to, or invested in all such Joint Ventures by any member of the Group;
  - (ii) the contingent liabilities of any member of the Group under any guarantee given in respect of the liabilities of any such Joint Venture; and
  - (iii) the market value of any cash or Cash Equivalent Investments transferred by any member of the Group to any such Joint Venture,

does not exceed \$10,000,000 (or its Base Currency Equivalent) in any Financial Year of the Company.

**"Permitted Loan"** means:

- (a) any trade credit extended by any member of the Group to its customers on normal commercial terms and in the ordinary course of its trading activities;
- (b) Financial Indebtedness which is referred to in the definition of, or otherwise constitutes, Permitted Financial Indebtedness except under paragraph (d) of that definition;
- (c) a loan made to a Joint Venture to the extent permitted under Clause 28.11 (*Joint Ventures*);
- (d) a loan made by an Obligor to another Obligor or made by a member of the Group which is not an Obligor to another member of the Group;
- (e) any loan made by an Obligor to a member of the Group which is not an Obligor so long as the aggregate amount of the Financial Indebtedness under any such loans does not exceed \$250,000 (or its equivalent) at any time;
- (f) a loan made by a member of the Group to an employee or director of any member of the Group if the amount of that loan when aggregated with the amount of all loans to employees and directors by members of the Group does not exceed \$250,000 (or its equivalent) at any time; and
- (g) any loan (other than a loan made by a member of the Group to another member of the Group) so long as the aggregate amount of Financial Indebtedness under any such loans does not exceed \$250,000 (or its equivalent) at any time,

so long as in the case of paragraphs (d) and (e) above the creditor of such Financial Indebtedness shall (if it is an Obligor) grant security over its rights in respect of such Financial Indebtedness in favour of the Secured Parties on terms acceptable to the Agent (acting on the instructions of the Majority Lenders).

**"Permitted Security"** means:

- (a) any lien arising by operation of law and in the ordinary course of trading and not as a result of any default or omission by any member of the Group;
- (b) any netting or set-off arrangement entered into by any member of the Group in the ordinary course of its banking arrangements for the purpose of netting debit and credit balances of members of the Group;
- (c) any payment or close out netting or set-off arrangement pursuant to any Treasury Transaction or foreign exchange transaction entered into by a member of the Group which constitutes Permitted Financial Indebtedness, excluding any Security or Quasi-Security under a credit support arrangement;
- (d) to the extent such Security relates to, or is granted in support of facilities permitted pursuant to paragraph (b) of "Permitted Financial Indebtedness";
- (e) any Security or Quasi-Security over or affecting any asset acquired by a member of the Group after the Original Effective Date if:
  - (i) the Security or Quasi-Security was not created in contemplation of the acquisition of that asset by a member of the Group;

- (ii) the principal amount secured has not been increased in contemplation of or since the acquisition of that asset by a member of the Group; and
  - (iii) the Security or Quasi-Security is removed or discharged within three months of the date of acquisition of such asset;
- (f) any Security or Quasi-Security arising under any retention of title, hire purchase or conditional sale arrangement or arrangements having similar effect in respect of goods supplied to a member of the Group in the ordinary course of trading and on the supplier's standard or usual terms and not arising as a result of any default or omission by any member of the Group;
  - (g) any Quasi-Security arising as a result of a disposal which is a Permitted Disposal; or
  - (h) any Security or Quasi-Security arising as a consequence of any Finance Lease permitted pursuant to paragraph (f) of the definition of "Permitted Financial Indebtedness";
  - (i) any Security or Quasi-Security for taxes, assessments and other governmental charges or levies (excluding any Lien imposed pursuant to any of the provisions of ERISA) (i) not yet due or to which the period of grace, if any, related thereto has not expired or (ii) which are being contested in good faith, and by appropriate proceedings if adequate reserves are maintained to the extent required by GAAP;
  - (j) any Security or Quasi-Security relating to claims of materialmen, mechanics, carriers, warehousemen, processors or landlords for labour, materials, supplies or rentals incurred in the ordinary course of business, which (i) claims are being contested in good faith and by appropriate proceedings with adequate reserves maintained to the extent required by GAAP and (ii) do not, individually or in the aggregate, materially impair the use thereof in the operation of the business of the Borrower or any of its Subsidiaries;
  - (k) deposits or pledges made in the ordinary course of business in connection with, or to secure payment of, obligations under workers' compensation, unemployment insurance and other types of social security or similar legislation, or to secure the performance of bids, trade contracts and leases (other than Financial Indebtedness), statutory obligations, surety bonds (other than bonds related to judgments or litigation), performance bonds and other obligations of a like nature incurred in the ordinary course of business;
  - (l) encumbrances in the nature of zoning restrictions, easements and rights or restrictions of record on the use of real property, which in the aggregate are not substantial in amount and which do not, in any case, materially impair the use thereof in the ordinary conduct of business;
  - (m) any Security or Quasi-Security arising from the filing of precautionary UCC financing statements relating solely to personal property leased pursuant to operating leases entered into in the ordinary course of business of the Borrower and its Subsidiaries;
  - (n) any Security or Quasi-Security securing judgments for the payment of money not constituting an Event of Default hereunder or securing appeal or other surety bonds relating to such judgments;



- (o) any interest or title of a licensor, sub-licensor, lessor or sub-lessor with respect to any assets under any license or lease agreement entered into in the ordinary course of business which do not (i) interfere in any material respect with the business of the Borrower or its Subsidiaries or (ii) secure any Indebtedness; or
- (p) Security or Quasi-Security not otherwise permitted hereunder securing Financial Indebtedness or other obligations in an aggregate principal amount not to exceed \$5,000,000 at any time outstanding.

**"Permitted Share Issue"** means an issue of:

- (a) shares by the Company, where such issue does not lead to a Change of Control of the Company; and
- (b) shares by a member of the Group (other than the Company) which is a Subsidiary to its immediate Holding Company for non-cash consideration where (if the existing shares of the Subsidiary are the subject of the Transaction Security) the newly-issued shares also become subject to the Transaction Security on the same terms.

**"Permitted Transaction"** means:

- (a) any disposal required, Financial Indebtedness incurred, guarantee, indemnity or Security or Quasi-Security given, or other transaction arising, under the Finance Documents;
- (b) the solvent liquidation or reorganisation of any member of the Group which is not an Obligor or whose shares have not been charged or pledged under the Transaction Security Documents so long as any payments or assets distributed as a result of such liquidation or reorganisation are distributed to other members of the Group; or
- (c) transactions (other than (i) any sale, lease, licence, transfer or other disposal; and (ii) the granting or creation of Security, the incurring or permitting to subsist of Financial Indebtedness or the disposal of the shares of any member of the Group), conducted in the ordinary course of trading on arm's length terms.

**"Plan"** means an employee pension benefit plan, as defined in Section 3(2) of ERISA (other than a Multiemployer Plan), subject to the provisions of Title IV of ERISA or Section 412 of the Code that is maintained or contributed to, or required to be contributed to, by any Obligor or ERISA Affiliate.

**"Product"** means any products, services, and diagnostic tests developed by the Group or any of its Subsidiaries or sold or marketed by any member of the Group or any of its Subsidiaries to third parties (and not for internal use by any member of the Group).

**"Property"** means any right or interest in or to property of any kind whatsoever, whether real, personal or mixed and whether tangible or intangible.

**"Qualified ECP Guarantor"** means, in respect of any Swap Obligation, each Obligor that has total assets exceeding \$10,000,000 at the time such Swap Obligation is incurred or such other person as constitutes an "eligible contract participant" under the Commodity Exchange Act or any regulations promulgated thereunder and can cause another person to qualify as an "eligible contract participant" at such time by entering into a keepwell under Section 1a(18)(A)(v)(II) of the Commodity Exchange Act.

"**Qualifying Lender**" has the meaning given to that term in Clause 14 (*Tax Gross-Up and indemnities*).

"**Quarter Date**" means each of 31 March, 30 June, 30 September and 31 December.

"**Quarterly Financial Statements**" has the meaning given to that term in Clause 21 (*Information undertakings*).

"**Quasi-Security**" has the meaning given to that term in Clause 23.17 (*Negative pledge*).

"**Quotation Day**" means, in relation to any period for which an interest rate is to be determined the first day of that period (unless market practice differs in the Relevant Market for that currency, in which case the Quotation Day for that currency will be determined by the Agent in accordance with market practice in the Relevant Market (and if quotations would normally be given on more than one day, the Quotation Day will be the last of those days)).

"**Receiver**" means a receiver or receiver and manager or administrative receiver of the whole or any part of the Charged Property.

"**Reference Bank Quotation**" means any quotation supplied to the Agent by a Reference Bank.

"**Reference Bank Rate**" means the arithmetic mean of the rates (rounded upwards to four decimal places) as supplied to the Agent at its request by the Reference Banks as either:

- (a) if:
  - (i) the Reference Bank is a contributor to the applicable Screen Rate; and
  - (ii) it consists of a single figure,  
the rate (applied to the relevant Reference Bank and the relevant currency and period) which contributors to the applicable Screen Rate are asked to submit to the relevant administrator; or
- (b) in any other case, the rate at which the relevant Reference Bank could fund itself in the relevant currency for the relevant period with reference to the unsecured wholesale funding market.

"**Reference Banks**" means the principal London offices of such banks as may be appointed by the Agent in consultation with the Company.

"**Regulatory Agency**" means governmental authority or regulator with responsibility for the regulation of the research, development, marketing or sale of drugs or pharmaceuticals in any jurisdiction, including the FDA and the EMA.

"**Regulatory Approval**" means, with respect to a product or device in any country or regulatory jurisdiction, all actions, approvals (including, where applicable, pricing and reimbursement approval and schedule classifications), licenses, registrations or authorizations of any Regulatory Agency necessary for the making, manufacture, sale, offer for sale, distribution, import, export, promotion, marketing or other use of such product or device in such country or jurisdiction.

"**Related Fund**" means any (a) investment company, fund, trust, securitization vehicle or conduit that is (or will be) engaged in making, purchasing, holding or otherwise investing in

commercial loans and similar extensions of credit in the ordinary course of business, or (b) any person (other than a natural person) which temporarily warehouses loans for any Lender or any entity described in the preceding clause (a) and that, with respect to each of the preceding clauses (a) and (b), is administered or managed by (i) a Lender, (ii) an Affiliate of a Lender or (iii) a person (other than a natural person) or an Affiliate of a person (other than a natural person) that administers or manages a Lender.

**"Relevant Jurisdiction"** means, in relation to an Obligor:

- (a) its Original Jurisdiction;
- (b) any jurisdiction where any asset subject to or intended to be subject to the Transaction Security to be created by it is situated;
- (c) any jurisdiction where it conducts its business;
- (d) the jurisdiction whose laws govern the perfection of any of the Transaction Security Documents entered into by it; and
- (e) in the case of a US Obligor:
  - (i) the jurisdiction where it maintains its principal place of business; and
  - (ii) any jurisdiction the laws of which govern any Transaction Security Document or the attachment or perfection of any charge, lien, security interest or other encumbrance established or created pursuant thereto.

**"Relevant Market"** means the London interbank market.

**"Repayment Date"** means the first Business Day of each calendar Month.

**"Repayment Instalment"** means a Facility A Repayment Instalment as defined in Clause 6.1 (*Repayment of Facility A Loans*), a Facility B Repayment Instalment as defined in Clause 6.1(b) (*Repayment of the Facility B Loan*) or a Facility C Repayment Instalment as defined in Clause 6.3 (*Repayment of the Facility C Loan*).

**"Repeating Representations"** means each of the representations set out in Clause 20.2 (*Status*) to Clause 20.7 (*Governing law and enforcement*), Clause 20.11 (*No default*), Clause 20.20 (*Ranking*) to Clause 20.22 (*Legal and beneficial ownership*) and Clause 20.30 (*Sanctions*).

**"Report"** means any due diligence report prepared in connection with a Permitted Acquisition.

**"Representative"** means any delegate, agent, manager, administrator, nominee, attorney, trustee or custodian.

**"Resignation Letter"** means a letter substantially in the form set out in Schedule 7 (*Form of Resignation Letter*).

**"Screen Rate"** means the London interbank offered rate administered by ICE Benchmark Administration Limited (or any other person which takes over the administration of that rate) for the relevant currency and period displayed on pages LIBOR01 or LIBOR02 of the Thomson Reuters screen (or any replacement Thomson Reuters page which displays that rate) or on the appropriate page of such other information service which publishes that rate from time to time in place of Thomson Reuters. If such page or service ceases to be

available, the Agent may specify another page or service displaying the relevant rate after consultation with the Company.

**"Secured Parties"** means each Finance Party, any Receiver or Delegate.

**"Security"** means a mortgage, charge, pledge, lien or other security interest securing any obligation of any person or any other agreement or arrangement having a similar effect.

**"Security Agent's Spot Rate of Exchange"** means, in respect of the conversion of one currency (the **"First Currency"**) into another currency (the **"Second Currency"**) the Security Agent's spot rate of exchange for the purchase of the Second Currency with the First Currency in the London foreign exchange market at or about 11:00 am (London time) on a particular day, which shall be notified by the Security Agent in accordance with paragraph (e) of Clause 28.6 (*Duties of the Security Agent*).

**"Selection Notice"** means a notice substantially in the form set out in Part 2 of Schedule 3 (*Requests and Notices*) given in accordance with Clause 11 (*Interest Periods*) in relation to a Facility.

**"Specified Time"** means a time determined in accordance with Schedule 9 (*Timetables*).

**"Sterling"** and **"£"** means the lawful currency of the UK.

**"Subsidiary"** means an entity of which a person:

- (a) has direct or indirect Control; or
- (b) owns directly or indirectly more than fifty per cent. (50%) of the share capital or similar right of ownership; or
- (c) is entitled to receive more than fifty per cent. (50%) of the dividends or distributions,

and any entity (whether or not so controlled) treated as a subsidiary in the latest financial statements of that person from time to time and disregarding, for the purpose of this definition, the fact that any shares in that entity may be held by way of security, that the beneficiary of the security (or its nominee) may be registered as a member of the relevant undertaking and/or that such beneficiary of the security (or its nominee) may be entitled to exercise voting powers and rights with respect to those charged shares.

**"Swap Obligation"** means, with respect to any Obligor or the Company, any obligation to pay or perform under any agreement, contract or transaction that constitutes a "swap" within the meaning of section 1a(47) of the Commodity Exchange Act.

**"Tax"** means any tax, levy, impost, duty or other charge or withholding of a similar nature (including any penalty or interest payable in connection with any failure to pay or any delay in paying any of the same).

**"Termination Date"** means in relation to each Facility, the date falling 60 months after the First Effective Date.

**"Total Commitments"** means the aggregate of the Total Facility A1 Commitments, Total Facility A2 Commitments, the Total Facility B Commitments and the Total Facility C Commitments, being \$100,000,000 at the First Effective Date.

**"Total Facility A1 Commitments"** means the aggregate of the Facility A1 Commitments, being \$25,000,000 at the First Effective Date.

**"Total Facility A2 Commitments"** means the aggregate of the Facility A2 Commitments, being \$8,000,000 at the First Effective Date.

**"Total Facility B Commitments"** means the aggregate of the Facility B Commitments, being \$33,000,000 at the First Effective Date.

**"Total Facility C Commitments"** means the aggregate of the Facility C Commitments, being \$34,000,000 at the First Effective Date.

**"Trade Instruments"** means any performance bonds, advance payment bonds or documentary letters of credit issued in respect of the obligations of any member of the Group arising in the ordinary course of trading of that member of the Group.

**"Transaction Documents"** means the Finance Documents and the Constitutional Documents.

**"Transaction Security"** means the Security created or expressed to be created in favour of the Security Agent pursuant to the Transaction Security Documents.

**"Transaction Security Documents"** means each of the documents listed as being a Transaction Security Document in paragraph 13(a) of Part 1 of Schedule 2 (*Conditions precedent*), any document required to be delivered to the Agent under paragraph 13 of Part 2 of Schedule 2 (*Conditions precedent*) together with any other document entered into by any Obligor creating or expressed to create any Security over all or any part of its assets in respect of the obligations of any of the Obligors under any of the Finance Documents.

**"Transfer Certificate"** means a certificate substantially in the form set out in Schedule 4 (*Form of Transfer Certificate*) or any other form agreed between the Agent and the Company.

**"Transfer Date"** means, in relation to an assignment or transfer, the later of:

- (a) the proposed Transfer Date specified in the relevant Assignment Agreement or Transfer Certificate; and
- (b) the date on which the Agent executes the relevant Assignment Agreement or Transfer Certificate.

**"Treasury Transactions"** means any derivative transaction entered into in connection with protection against or benefit from fluctuation in any rate or price.

**"UCC"** means the Uniform Commercial Code as in effect from time to time in the State of New York; provided that if by reason of mandatory provisions of law, the perfection, the effect of perfection or non-perfection or the priority of the security interests in any collateral is governed by the Uniform Commercial Code as in effect in a jurisdiction other than New York, "UCC" means the Uniform Commercial Code as in effect in such other jurisdiction for purposes of the provisions hereof relating to such perfection, effect of perfection or non-perfection or priority.

**"UK"** and **"United Kingdom"** means the United Kingdom of Great Britain and Northern Ireland.

**"Unpaid Sum"** means any sum due and payable but unpaid by an Obligor under the Finance Documents.

**"US"** and **"United States"** means the United States of America.

"**US Bankruptcy Code**" means Title 11 of The United States Code (entitled "Bankruptcy"), as amended from time to time and as now or hereafter in effect, or any successor thereto.

"**US Debtor Relief Laws**" means the US Bankruptcy Code and all other federal and state liquidation, bankruptcy, assignment for the benefit of creditors, conservatorship, moratorium, receivership, insolvency, rearrangement, reorganization or similar debtor relief laws in effect from time to time.

"**US Guarantor**" means any Guarantor that is incorporated or organised under the laws of the United States or any State or territory thereof or the District of Columbia.

"**US Obligor**" means any Obligor that is incorporated or organised under the laws of the United States, any State or territory thereof or the District of Columbia.

"**US Tax Obligor**" means:

- (a) a Borrower which is resident for tax purposes in the US; or
- (b) an Obligor some or all of whose payments under the Finance Documents are from sources within the US for US federal income tax purposes.

"**Utilisation**" means a Loan.

"**Utilisation Date**" means the date of a Utilisation being the date on which the relevant Loan is to be made.

"**Utilisation Request**" means a notice substantially in the relevant form set out in Schedule 3 (*Requests*).

"**VAT**" means:

- (a) any tax imposed in compliance with the Council Directive of 28 November 2006 on the common system of value added tax (EC Directive 2006/112); and
- (b) any other tax of a similar nature, whether imposed in a member state of the European Union in substitution for, or levied in addition to, such tax referred to in paragraph (a) above, or imposed elsewhere.

"**Withdrawal Liability**" means liability to a Multiemployer Plan as a result of a complete or partial withdrawal from such Multiemployer Plan, as such terms are defined in Part I of Subtitle E of Title IV of ERISA.

1.2

## **Construction**

- (a) Unless a contrary indication appears, a reference in this Agreement to:
  - (i) the "**Agent**", the "**Arranger**", any "**Finance Party**", any "**Lender**", any "**Obligor**", any "**Party**", any "**Secured Party**", the "**Security Agent**" or any other person shall be construed so as to include its successors in title, permitted assigns and permitted transferees to, or of, its rights and/or obligations under the Finance Documents and, in the case of the Security Agent, any person for the time being appointed as Security Agent or Security Agents in accordance with the Finance Documents;
  - (ii) a document in "**agreed form**" is a document which is previously agreed in writing by or on behalf of the Company and the Agent or, if not so agreed, is in the form specified by the Agent;

- (iii) "**assets**" includes present and future properties, revenues and rights of every description;
- (iv) a "**Finance Document**" or a "**Transaction Document**" or any other agreement or instrument is a reference to that Finance Document or Transaction Document or other agreement or instrument as amended, novated, supplemented or extended (in any case, however fundamentally);
- (v) a "**group of Lenders**" includes all of the Lenders in that group;
- (vi) "**guarantee**" means (other than in Clause 19 (*Guarantee and Indemnity*)) any guarantee, letter of credit, bond, indemnity or similar assurance against loss, or any obligation, direct or indirect, actual or contingent, to purchase or assume any indebtedness of any person or to make an investment in or loan to any person or to purchase assets of any person where, in each case, such obligation is assumed in order to maintain or assist the ability of such person to meet its indebtedness;
- (vii) "**Guarantor**", "**Original Guarantor**", "**Additional Guarantor**" and "**this guarantee**" shall not be construed restrictively and shall include the payment undertakings and indemnities contained in Clause 19 (*Guarantee and Indemnity*);
- (viii) "**including**" and "**in particular**" shall not be construed restrictively but shall mean "including without prejudice to the generality of the foregoing" and "in particular, but without limitation";
- (ix) "**indebtedness**" includes any obligation (whether incurred as principal or as surety) for the payment or repayment of money, whether present or future, actual or contingent;
- (x) a "**person**" includes any individual, firm, company, corporation, government, state or agency of a state or any association, joint venture, trust, consortium, partnership or other entity (whether or not having separate legal personality);
- (xi) a "**regulation**" includes any regulation, rule, official directive, request, or guideline (whether or not having the force of law) of any governmental, intergovernmental or supranational body, agency or department of any regulatory, self-regulatory or other authority or organisation;
- (xii) "**wholly owned subsidiary**" means a company or corporation that has no members except for:
  - (1) another company or corporation and that other company's or corporation's wholly-owned subsidiaries; or
  - (2) persons acting on behalf of that other company or corporation and that other company's or corporation's wholly-owned subsidiaries.
- (xiii) a provision of law is a reference to that provision as amended or re-enacted and any subordinate legislation made under it; and
- (xiv) a time of day is a reference to London time.

- (b) The determination of the extent to which a rate is "for a period equal in length" to an Interest Period shall disregard any inconsistency arising from the last day of that Interest Period being determined pursuant to the terms of this Agreement.
- (c) Section, Clause and Schedule headings are for ease of reference only.
- (d) Unless a contrary indication appears, a term used in any other Finance Document or in any notice given under or in connection with any Finance Document has the same meaning in that Finance Document or notice as in this Agreement.
- (e) A Default or an Event of Default is "**continuing**" if it has not been remedied or waived.
- (f) Any consent, waiver or approval required from a Finance Party under a Finance Document must be in writing and will be of no effect if not in writing.
- (g) Reference to a monetary sum specified in the Base Currency in Clause 20 (*Representations*), Clause 21 (*Information undertakings*), Clause 22 (*Financial covenants*), Clause 23 (*General undertakings*) and/or Clause 24 (*Events of Default*) shall be deemed to include reference to the Base Currency Equivalent of such sum.

### 1.3

#### **Third party rights**

- (a) Unless expressly provided to the contrary in a Finance Document a person who is not a Party has no right under the Contracts (Rights of Third Parties) Act 1999 (the "**Third Parties Act**") to enforce or enjoy the benefit of any term of this Agreement.
- (b) Notwithstanding any term of any Finance Document, the consent of any person who is not a Party is not required to rescind or vary this Agreement at any time.



**SECTION 2**

**THE FACILITIES**

**2. THE FACILITIES**

**2.1 The Facilities**

Subject to the terms of this Agreement, the Lenders make available to the Borrowers:

- (a) a Base Currency term loan facility in an aggregate amount equal to the Total Facility A1 Commitments;
- (b) a Base Currency term loan facility in an aggregate amount equal to the Total Facility A2 Commitments;
- (c) a Base Currency term loan facility in an aggregate amount equal to the Total Facility B Commitments; and
- (d) a Base Currency term loan facility in an aggregate amount equal to the Total Facility C Commitments.

**2.2 Increase**

- (a) The Company may by giving prior notice to the Agent after the effective date of a cancellation of:
  - (i) the Available Commitments of a Defaulting Lender in accordance with Clause 7.5 (*Right of cancellation in relation to a Defaulting Lender*); or
  - (ii) the Commitments of a Lender in accordance with:
    - (1) Clause 7.1 (*Illegality*), or
    - (2) Paragraph (a) of Clause 7.4 (*Right of cancellation and repayment in relation to a single Lender*),request that the Commitments relating to any Facility be increased (and the Commitments relating to that Facility shall be so increased) in an aggregate amount in the Base Currency of up to the amount of the Available Commitments or Commitments relating to that Facility so cancelled as follows:
    - (iii) the increased Commitments will be assumed by one or more Eligible Institutions (each an "**Increase Lender**") selected by the Company and each of which confirms in writing (whether in the relevant Increase Confirmation or otherwise) its willingness to assume and does assume all the obligations of a Lender corresponding to that part of the increased Commitments which it is to assume, as if it had been an Original Lender in respect of those Commitments;
    - (iv) each of the Obligors and any Increase Lender shall assume obligations towards one another and/or acquire rights against one another as the Obligors and the Increase Lender would have assumed and/or acquired had the Increase Lender been an Original Lender in respect of that part of the increased Commitments which it is to assume;

- (v) each Increase Lender shall become a Party as a "Lender" and any Increase Lender and each of the other Finance Parties shall assume obligations towards one another and acquire rights against one another as that Increase Lender and those Finance Parties would have assumed and/or acquired had the Increase Lender been an Original Lender in respect of that part of the increased Commitments which it is to assume;
  - (vi) the Commitments of the other Lenders shall continue in full force and effect; and
  - (vii) any increase in the Commitments relating to a Facility shall, subject to the conditions set out in paragraphs (d) and (e) below, take effect on the date specified by the Company in the notice referred to above or any later date on which the Agent executes an otherwise duly completed Increase Confirmation delivered to it by the relevant Increase Lender.
- (b) The Agent shall, subject to paragraph (c) below, as soon as reasonably practicable after receipt by it of a duly completed Increase Confirmation appearing on its face to comply with the terms of this Agreement and delivered in accordance with the terms of this Agreement, execute that Increase Confirmation.
  - (c) The Agent shall only be obliged to execute an Increase Confirmation delivered to it by an Increase Lender once it is satisfied it has complied with all necessary "know your customer" or other similar checks under all applicable laws and regulations in relation to the assumption of the increased Commitments by that Increase Lender.
  - (d) Each Increase Lender, by executing the Increase Confirmation, confirms (for the avoidance of doubt) that the Agent has authority to execute on its behalf any amendment or waiver that has been approved by or on behalf of the requisite Lender or Lenders in accordance with this Agreement on or prior to the date on which the increase becomes effective in accordance with this Agreement and that it is bound by that decision to the same extent as it would have been had it been an Original Lender.
  - (e) The Company shall, on the date upon which the increase takes effect, pay to the Agent (for its own account) a fee of \$3,500 and the Company shall promptly on demand pay the Agent and the Security Agent the amount of all costs and expenses (including legal fees) reasonably incurred by either of them and, in the case of the Security Agent, by any Receiver or Delegate in connection with any increase in Commitments under this Clause 2.2.
  - (f) The Company may pay to the Increase Lender a fee in the amount and at the times agreed between the Company and the Increase Lender in a Fee Letter.
  - (g) Neither the Agent nor any Lender shall have any obligation to find an Increase Lender and in no event shall any Lender whose Commitment is replaced by an Increase Lender be required to pay or surrender any of the fees received by such Lender pursuant to the Finance Documents.
  - (h) Clause 25.4 (*Limitation of responsibility of Existing Lenders*) shall apply mutatis mutandis in this Clause 2.2 in relation to an Increase Lender as if references in that Clause to:
    - (i) an "**Existing Lender**" were references to all the Lenders immediately prior to the relevant increase;

- (ii) the "**New Lender**" were references to that "**Increase Lender**"; and
- (iii) a "**re-transfer**" and "**re-assignment**" were references to respectively a "**transfer**" and "**assignment**".

### 2.3 **Finance Parties' rights and obligations**

- (a) The obligations of each Finance Party under the Finance Documents are several. Failure by a Finance Party to perform its obligations under the Finance Documents does not affect the obligations of any other Party under the Finance Documents. No Finance Party is responsible for the obligations of any other Finance Party under the Finance Documents.
- (b) The rights of each Finance Party under or in connection with the Finance Documents are separate and independent rights and any debt arising under the Finance Documents to a Finance Party from an Obligor is a separate and independent debt in respect of which a Finance Party shall be entitled to enforce its rights in accordance with paragraph (c) below. The rights of each Finance Party include any debt owing to that Finance Party under the Finance Documents and, for the avoidance of doubt, any part of a Loan or any other amount owed by an Obligor which relates to a Finance Party's participation in a Facility or its role under a Finance Document (including any such amount payable to the Agent on its behalf) is a debt owing to that Finance Party by that Obligor.
- (c) A Finance Party may, except as specifically provided in the Finance Documents, separately enforce its rights under or in connection with the Finance Documents.

### 2.4 **Obligors' Agent**

- (a) Each Obligor (other than the Company) by its execution of this Agreement or an Accession Deed irrevocably appoints the Company (acting through one or more authorised signatories) to act on its behalf as its agent in relation to the Finance Documents and irrevocably authorises:
  - (i) the Company on its behalf to supply all information concerning itself contemplated by the Finance Documents to the Finance Parties and to give all notices and instructions (including, in the case of a Borrower, Utilisation Requests), to make any agreements and to effect any amendments, supplements and variations capable of being given, made or effected by any Obligor notwithstanding that they may affect the Obligor, without further reference to or the consent of that Obligor; and
  - (ii) each Finance Party to give any notice, demand or other communication to that Obligor pursuant to the Finance Documents to the Company,

and in each case the Obligor shall be bound as though the Obligor itself had given the notices and instructions (including, without limitation, any Utilisation Requests) or executed or made the agreements or effected the amendments, supplements or variations, or received the relevant notice, demand or other communication.

- (b) Every act, omission, agreement, undertaking, settlement, waiver, amendment, supplement, variation, notice or other communication given or made by the Obligors' Agent or given to the Obligors' Agent under any Finance Document on behalf of another Obligor or in connection with any Finance Document (whether or not known to any other Obligor and whether occurring before or after such other

Obligor became an Obligor under any Finance Document) shall be binding for all purposes on that Obligor as if that Obligor had expressly made, given or concurred with it. In the event of any conflict between any notices or other communications of the Obligor's Agent and any other Obligor, those of the Obligor's Agent shall prevail.

3. **PURPOSE**

3.1 **Purpose**

Each Borrower shall apply all amounts borrowed by it under a Facility towards the general corporate and working capital purposes of the Group.

3.2 **Monitoring**

No Finance Party is bound to monitor or verify the application of any amount borrowed pursuant to this Agreement.

4. **CONDITIONS OF UTILISATION**

4.1 **Initial conditions precedent**

- (a) The Lenders will only be obliged to comply with Clause 5.4 (*Lenders' participation*) in relation to any Utilisation if on or before the Utilisation Date for that Utilisation, the Agent has received all of the documents and other evidence listed in Part 1 of Schedule 2 (*Conditions precedent*) in form and substance satisfactory to the Agent. The Agent shall notify the Company and the Lenders promptly upon being so satisfied.
- (b) Other than to the extent that the Majority Lenders notify the Agent in writing to the contrary before the Agent gives the notification described in paragraph (a) above, the Lenders authorise (but do not require) the Agent to give that notification. The Agent shall not be liable for any damages, costs or losses whatsoever as a result of giving any such notification.

4.2 **Further conditions precedent**

Subject to Clause 4.1 (*Initial conditions precedent*), the Lenders will only be obliged to comply with Clause 5.4 (*Lenders' participation*) if:

- (a) on the date of the Utilisation Request and on the proposed Utilisation Date:
  - (i) no Default is continuing or would result from the proposed Loan; and
  - (ii) the Repeating Representations to be made by each Obligor are true in all material respects;
- (b) in the case of a Facility B Loan, no earlier than five Business Days before the proposed Utilisation Date, the Company has delivered to the Agent a certificate signed by two officers of the Company:
  - (i) confirming that either:
    - (1) the FDA has accepted the Company's BLA for the testing, manufacturing, marketing and commercial sale of [\*\*\*]; or

- (2) the EMA has approved the Company's Marketing Authorization Application for the testing, manufacturing, marketing and commercial sale of [\*\*\*]; and
- (ii) evidencing that the Group has at least \$100,000,000 of Group Unrestricted Cash (the conditions in paragraph (b)(i) and (ii), above, collectively, the "**Facility B Utilisation Conditions**"); and
- (c) in the case of a Facility C Loan, no earlier than five Business Days before the proposed Utilisation Date, the Company has delivered to the Agent a certificate signed by two officers of the Company:
  - (i) evidencing that Net Revenue for the twelve (12) month period ending on the month-end date for which a Compliance Certificate was most recently delivered (or required to be delivered pursuant to Clause 21.2), was at least \$[\*\*\*]; and
  - (ii) evidencing that the Group has at least \$100,000,000 of Group Unrestricted Cash.

#### 4.3 **Maximum number of Loans**

- (a) The Borrower may not deliver a Utilisation Request if as a result of the proposed Utilisation:
  - (i) more than one Facility A1 Loan would be outstanding;
  - (ii) more than one Facility A2 Loan would be outstanding;
  - (iii) more than one Facility B Loan would be outstanding; or
  - (iv) more than one Facility C Loan would be outstanding.
- (b) The Borrower may not request that a Facility A Loan, the Facility B Loan or the Facility C Loan be divided.

**SECTION 3**

**UTILISATION**

**5. UTILISATION**

**5.1 Delivery of a Utilisation Request**

A Borrower (or the Company of its behalf) may utilise a Facility by delivery to the Agent of a duly completed Utilisation Request not later than the Specified Time.

**5.2 Completion of a Utilisation Request**

- (a) Each Utilisation Request is irrevocable and will not be regarded as having been duly completed unless:
  - (i) it identifies the Facility to be utilised;
  - (ii) the proposed Utilisation Date is a Business Day within the Availability Period applicable to that Facility;
  - (iii) the currency and amount of the Utilisation comply with Clause 5.3 (*Currency and amount*); and
  - (iv) the proposed Interest Period complies with Clause 11 (*Interest Periods*).
- (b) Only one Utilisation may be requested in each Utilisation Request.

**5.3 Currency and amount**

- (a) The currency specified in a Utilisation Request must be the Base Currency.
- (b) The amount of the proposed Utilisation must be:
  - (i) an amount equal to the Available Facility for Facility A1;
  - (ii) an amount equal to the Available Facility for Facility A2;
  - (iii) an amount equal to the Available Facility for Facility B; or
  - (iv) an amount equal to the Available Facility for Facility C.

**5.4 Lenders' participation**

- (a) If the conditions set out in this Agreement have been met, each Lender shall make its participation in each Loan available by the Utilisation Date through its Facility Office.
- (b) The amount of each Lender's participation in each Loan will be equal to the proportion borne by its Available Commitment to the Available Facility immediately prior to making the Loan.

**5.5 Cancellation of Commitment**

- (a) The Facility A1 Commitments which, at that time, are unutilised shall be immediately cancelled at the end of the Availability Period for Facility A1.

- (b) The Facility A2 Commitments which, at that time, are unutilised shall be immediately cancelled at the end of the Availability Period for Facility A2.
- (c) The Facility B Commitments which, at that time, are unutilised shall be immediately cancelled at the end of the Availability Period for Facility B.
- (d) The Facility C Commitments which, at that time, are unutilised shall be immediately cancelled at the end of the Availability Period for Facility C.

**SECTION 4**

**REPAYMENT, PREPAYMENT AND CANCELLATION**

**6. REPAYMENT**

**6.1 Repayment of Facility A Loans**

- (a) The Borrower under Facility A shall, commencing on the first Repayment Date following the date falling:
- (i) if the Facility B Utilisation Conditions have not been satisfied as of such date, 18 Months after the First Effective Date; or
  - (ii) if the Borrower has delivered a certificate to Agent certifying that the Facility B Utilisation Conditions have been (and remain) satisfied as of such date, 30 Months after the First Effective Date; and
  - (iii) in each case, on each Repayment Date thereafter,

repay the Facility A Loans in instalments (each a "**Facility A Repayment Instalment**") by repaying on each such Repayment Date an amount equal to the aggregate amount of the Facility A Loans on either the date falling 18 Months pursuant to paragraph (i), or 30 Months pursuant to paragraph (ii) above (as applicable) after the First Effective Date is divided by the number of Repayment Dates remaining (including the Repayment Date on which the first payment is made) before the occurrence of the Termination Date, until such time as the Facility A Loans have been repaid in full.

- (b) Notwithstanding paragraph (a) above, if the Borrower has delivered a certificate to Agent certifying that the Facility B Utilisation Conditions have been (and remain) satisfied as of such date at any time during the period commencing on the date that is 18 months after the First Effective Date and ending on 1 July 2023, the Borrower shall not be required to make any additional scheduled principal payments under Facility A on any Repayment Date occurring after the date on which the Utilisation of Facility B occurs until the date that is 30 months after the Original Effective Date and the Facility A Repayment Instalments for the remaining Repayment Dates will be recalculated accordingly.

**6.2 Repayment of the Facility B Loan**

- (a) The Borrower under Facility B shall, commencing on the first Repayment Date following the date falling:
- (i) 30 Months after the First Effective Date; and
  - (ii) in each case, on each Repayment Date thereafter,

repay the Facility B Loan in instalments (each a "**Facility B Repayment Instalment**") by repaying on each such Repayment Date an amount equal to the aggregate amount of the Facility B Loan divided by the number of Repayment Dates remaining (including the Repayment Date on which the first payment is made) before the occurrence of the Termination Date, until such time as the Facility B Loan has been repaid in full.



- (b) The Borrower under Facility B shall, commencing on the first Repayment Date following the date falling 30 Months after the First Effective Date and, in each case, on each Repayment Date thereafter, repay the Loans in instalments (each a "**Facility B Repayment Instalment**") by repaying on each such Repayment Date an amount equal to the aggregate amount of the Facility B Loan divided by the number of Repayment Dates remaining (including the Repayment Date on which the first payment is made) before the occurrence of the Termination Date, until such time as the Facility B Loan has been repaid in full.

### 6.3 **Repayment of the Facility C Loan**

- (a) The Borrower under Facility C shall, commencing on the first Repayment Date following the date falling:
- (i) if the Facility B Utilisation Conditions have not been satisfied as of such date, 18 Months after the First Effective Date; or
  - (ii) if the Borrower has delivered a certificate to Agent certifying that the Facility B Utilisation Conditions have been (and remain) satisfied as of such date, 30 Months after the First Effective Date; and

repay the Facility C Loan in instalments (each a "**Facility C Repayment Instalment**") by repaying on each such Repayment Date an amount equal to the aggregate amount of the Facility C Loan on the date falling 18 Months or 30 Months, as applicable, after the First Effective Date divided by the number of Repayment Dates remaining (including the Repayment Date on which the first payment is made) before the occurrence of the Termination Date, until such time as the Facility C Loan has been repaid in full.

### 6.4 **Repayment of Loans**

- (a) Notwithstanding the provisions of Clause 6.1 (*Repayment of Facility A Loans*), Clause 6.1(b) (*Repayment of the Facility B Loan*) and Clause 6.3 (*Repayment of the Facility C Loan*), the relevant Borrower of each Loan shall repay the outstanding principal amount of each Loan on the Termination Date.
- (b) No Borrower may reborrow any part of a Facility which is repaid.

### 6.5 **Effect of cancellation and prepayment on scheduled repayments and reductions**

- (a) If the Company cancels the whole or any Available Commitment in accordance with Clause 7.4 (*Right of cancellation and repayment in relation to a single Lender*) or Clause 7.5 (*Right of Cancellation in relation to a Defaulting Lender*) or if the Available Commitment of any Lender is cancelled under Clause 7.1 (*Illegality*) (other than, in any relevant case, to the extent that any part of relevant Available Commitment(s) so cancelled is subsequently increased pursuant to Clause 2.2 (*Increase*)); then the amount of the Repayment Instalment for each Repayment Date falling after that cancellation will reduce pro rata by the amount cancelled.
- (b) If any Loan is repaid or prepaid in accordance with Clause 7.4 (*Right of cancellation and repayment in relation to a single Lender*) or Clause 7.1 (*Illegality*) then, other than to the extent that any part of the relevant Commitment is subsequently increased pursuant to Clause 2.2 (*Increase*) in the case of that Loan, the amount of the Repayment Instalments for the relevant Facility for each Repayment Date falling

after that repayment or prepayment will reduce *pro rata* by the amount of the Loan repaid or prepaid.

7. **ILLEGALITY, VOLUNTARY PREPAYMENT AND CANCELLATION**

7.1 **Illegality**

If in any applicable jurisdiction, it becomes unlawful for a Lender to perform any of its obligations as contemplated by this Agreement or to fund, issue or maintain its participation in any Utilisation or it becomes unlawful for any Affiliate of a Lender for that Lender to do so:

- (a) that Lender shall promptly notify the Agent upon becoming aware of that event;
- (b) upon the Agent notifying the Company, each Available Commitment of that Lender will be immediately cancelled; and
  - (i) each Borrower shall repay that Lender's participation in the Utilisations made to that Borrower on the last day of the Interest Period for each Utilisation occurring after the Agent has notified the Company or, if earlier, the date specified by the Lender in the notice delivered to the Agent (being no earlier than the last day of any applicable grace period permitted by law); and
  - (ii) that Lender's corresponding Commitment(s) shall be cancelled in the amount of the participations repaid.

7.2 **Voluntary cancellation**

The Company may, if it gives the Agent not less than 10 Business Days' (or such shorter period as the Majority Lenders may agree) prior notice, cancel the whole but not part of an Available Facility. Any cancellation under this Clause 7.2 shall reduce the Commitments of the Lenders rateably under that Facility.

7.3 **Voluntary prepayment of Loans**

- (a) A Borrower to which a Loan has been made may, if it or the Company gives the Agent not less than 30 days' (or such shorter period as the Majority Lenders may agree) prior notice, prepay the whole but not part of that Loan.
- (b) A Loan may only be prepaid after the last day of the Availability Period for the applicable Facility (or, if earlier, the day on which the applicable Available Facility is zero).

7.4 **Right of cancellation and repayment in relation to a single Lender**

- (a) If:
  - (i) any sum payable to any Lender by an Obligor is required to be increased under paragraph (c) of Clause 14.2 (*Tax gross-up*); or
  - (ii) any Lender claims indemnification from the Company or an Obligor under Clause 14.3 (*Tax indemnity*) or Clause 15.1 (*Increased costs*),

the Company may, whilst the circumstance giving rise to the requirement for that increase or indemnification continues give the Agent notice of cancellation of the Commitment(s) of that Lender and its intention to procure the repayment of that Lender's participation in the Utilisations.

- (b) On receipt of a notice referred to in paragraph (a) above in relation to a Lender, the Commitment(s) of that Lender shall immediately be reduced to zero.
- (c) On the last day of each Interest Period which ends after the Company has given notice under paragraph (a) above in relation to a Lender (or, if earlier, the date specified by the Company in that notice), each Borrower to which a Utilisation is outstanding shall repay that Lender's participation in that Utilisation together with all interest and other amounts accrued under the Finance Documents.

#### 7.5 **Right of cancellation in relation to a Defaulting Lender**

- (a) If any Lender becomes a Defaulting Lender, the Company may, at any time whilst the Lender continues to be a Defaulting Lender, give the Agent five Business Days' notice of cancellation of each Available Commitment of that Lender.
- (b) On the notice referred to in paragraph (a) above becoming effective, each Available Commitment of the Defaulting Lender shall immediately be reduced to zero.
- (c) The Agent shall as soon as practicable after receipt of a notice referred to in paragraph (a) above, notify all the Lenders.

### 8. **MANDATORY PREPAYMENT AND CANCELLATION**

#### 8.1 **Exit**

- (a) Upon the occurrence of:
  - (i) a Change of Control; or
  - (ii) the sale of all or substantially all of the assets of the Group whether in a single transaction or a series of related transactions,

the Facilities will be cancelled and all outstanding Utilisations, together with accrued interest, and all other amounts accrued under the Finance Documents, shall become immediately due and payable.

#### 8.2 **Disposal, Insurance and Acquisition Proceeds**

- (a) For the purposes of this Clause 8.2 and Clause 8.3 (*Application of mandatory prepayments and cancellations*):

**"Acquisition Proceeds"** means the proceeds of a claim or refund (a **"Recovery Claim"**) against the vendor or any of its Affiliates (or any employee, officer or adviser) in relation to a Permitted Acquisition or against the provider of any Report (in its capacity as a provider of that Report) except for Excluded Acquisition Proceeds, and after deducting:

  - (i) any reasonable expenses which are incurred by any member of the Group to persons who are not members of the Group; and
  - (ii) any Tax incurred and required to be paid by a member of the Group (as reasonably determined by the relevant member of the Group on the basis

of existing rates and taking into account any available credit, deduction or allowance),

in each case in relation to that Recovery Claim.

**"Disposal"** means a sale, lease, licence, transfer, loan or other disposal by a person of any asset, undertaking or business (whether by a voluntary or involuntary single transaction or series of transactions).

**"Disposal Proceeds"** means the consideration receivable by any member of the Group (including any amount receivable in repayment of intercompany debt) for any Disposal made by any member of the Group except for Excluded Disposal Proceeds and after deducting:

- (i) any reasonable expenses which are incurred by any member of the Group with respect to that Disposal to persons who are not members of the Group; and
- (ii) any Tax incurred and required to be paid by the seller in connection with that Disposal (as reasonably determined by the seller, on the basis of existing rates and taking account of any available credit, deduction or allowance).

**"Excluded Acquisition Proceeds"** means any proceeds of a Recovery Claim which the Company notifies the Agent are, or are to be, applied:

- (i) in payment of amounts payable to the vendor in relation to a Permitted Acquisition by way of adjustment to the purchase price in respect of the relevant Permitted Acquisition (except to the extent relating to a working capital adjustment);
- (ii) to satisfy (or reimburse a member of the Group which has discharged) any liability, charge or claim upon a member of the Group by a person which is not a member of the Group; or
- (iii) in the replacement, reinstatement and/or repair of assets of members of the Group which have been lost, destroyed or damaged,

in each case as a result of the events or circumstances giving rise to that Recovery Claim, if those proceeds are so applied as soon as possible (but in any event within 180 days, or such longer period as the Majority Lenders may agree) after receipt.

**"Excluded Disposal Proceeds"** means

- (i) Disposal Proceeds which have been derived from a Disposal of a type described in paragraphs (a), (b), (c), (d), (f) (but only if and to the extent that such Disposal is in exchange for other Cash Equivalent Investments), (g) or (h) of the definition of "Permitted Disposal"; and
- (ii) any other Disposal Proceeds which are applied towards the purchase of replacement assets of the same general nature as those disposed of as soon as possible (but in any event within 180 days or such longer period as the Majority Lenders may agree) after receipt.

**"Excluded Insurance Proceeds"** means any proceeds of an insurance claim which the Company notifies the Agent are, or are to be, applied:

- (i) to meet a third party claim; or
- (ii) to cover operating losses in respect of which the relevant insurance claim was made; or
- (iii) to the replacement, reinstatement and/or repair of the assets or otherwise in amelioration of the loss in respect of which the relevant insurance claim was made,

in each case as soon as possible (but in any event within 180 days, or such longer period as the Majority Lenders may agree) after receipt.

**"Insurance Proceeds"** means the proceeds of any insurance claim under any insurance maintained by any member of the Group except for Excluded Insurance Proceeds and after deducting any reasonable expenses in relation to that claim which are incurred by any member of the Group to persons who are not members of the Group.

- (b) The Company shall ensure that the Borrowers prepay Utilisations and cancel Available Commitments, in amounts equal to the following amounts at the times and in the order of application contemplated by Clause 8.3 (*Application of mandatory prepayments and cancellations*):
  - (i) the amount of Acquisition Proceeds;
  - (ii) the amount of Disposal Proceeds; and
  - (iii) the amount of Insurance Proceeds.

### 8.3 Application of mandatory prepayments and cancellations

- (a) A prepayment of Utilisations or cancellation of Available Commitments made under Clause 8.2 (*Disposal, Insurance and Acquisition Proceeds*) shall be applied in prepayment of Loans as contemplated in paragraphs (b) to (e) inclusive below.
- (b) Unless the Company makes an election under paragraph (d) below, the Borrowers shall prepay Loans in the case of any prepayment relating to the amounts of Acquisition Proceeds, Disposal Proceeds or Insurance Proceeds, promptly upon receipt of those proceeds.
- (c) A prepayment under Clause 8.2 (*Disposal, Insurance and Acquisition Proceeds*) shall prepay the Loans as follows:
  - (i) in amounts which reduce the Facility A Loans, the Facility B Loan and the Facility C Loan by the same proportion; and
  - (ii) in reducing the relevant Repayment Instalment for each Repayment Date falling after the date of prepayment in the manner contemplated by paragraph (d) of Clause 6.5 (*Effect of cancellation and prepayment on scheduled repayments and reductions*).
- (d) Subject to paragraph (e) below, the Company may elect that any prepayment under Clause 8.2 (*Disposal, Insurance and Acquisition Proceeds*) be applied in prepayment of a Loan on the last day of the Interest Period relating to that Loan. If the Company makes that election then a proportion of the Loan equal to the amount

of the relevant prepayment will be due and payable on the last day of its Interest Period.

- (e) If the Company has made an election under paragraph (d) above but a Default has occurred and is continuing, that election shall no longer apply and a proportion of the Loan in respect of which the election was made equal to the amount of the relevant prepayment shall be immediately due and payable (unless the Majority Lenders otherwise agree in writing).

#### 8.4 **Excluded proceeds**

Where Excluded Acquisition Proceeds, Excluded Disposal Proceeds and Excluded Insurance Proceeds include amounts which are intended to be used for a specific purpose within a specified period (as set out in the relevant definition of Excluded Acquisition Proceeds, Excluded Disposal Proceeds or Excluded Insurance Proceeds), the Company shall ensure that those amounts are used for that purpose and shall promptly deliver a certificate to the Agent at the time of such application and at the end of such period confirming the amount (if any) which has been so applied within the requisite time periods provided for in the relevant definition.

### 9. **RESTRICTIONS**

#### 9.1 **Notices of cancellation or prepayment**

Any notice of cancellation, prepayment, authorisation or other election given by any Party under Clause 7 (*Illegality, voluntary prepayment and cancellation*) or paragraph (d) of Clause 8.3 (*Application of mandatory prepayments and cancellations*) (subject to the terms of those Clauses) shall be irrevocable and, unless a contrary indication appears in this Agreement, shall specify the date or dates upon which the relevant cancellation or prepayment is to be made and the amount of that cancellation or prepayment.

#### 9.2 **Interest and other amounts**

Any prepayment under this Agreement shall be made together with accrued interest on the amount prepaid and any prepayment fees that are payable under Clause 13.3 and, subject to any Break Costs, without premium or penalty.

#### 9.3 **No reborrowing of Facilities**

No Borrower may reborrow any part of a Facility which is prepaid.

#### 9.4 **Prepayment in accordance with Agreement**

No Borrower shall repay or prepay all or any part of the Utilisations or cancel all or any part of the Commitments except at the times and in the manner expressly provided for in this Agreement.

#### 9.5 **No reinstatement of Commitments**

Subject to Clause 2.2 (*Increase*), no amount of the Total Commitments cancelled under this Agreement may be subsequently reinstated.

9.6 **Agent's receipt of notices**

If the Agent receives a notice under Clause 7 (*Illegality, voluntary prepayment and cancellation*), it shall promptly forward a copy of that notice to either the Company or the affected Lender, as appropriate.

9.7 **Effect of repayment and prepayment on Commitments**

If all or part of any Lender's participation in a Utilisation under a Facility is repaid or prepaid and is not available for redrawing (other than by operation of Clause 4.2 (*Further conditions precedent*)), an amount of that Lender's Commitment (equal to the amount in the Base Currency of the participation that is repaid or prepaid) in respect of that Facility will be deemed to be cancelled on the date of repayment or prepayment.

9.8 **Application of prepayments**

Any prepayment of a Utilisation (other than a prepayment pursuant to Clause 7.1 (*Illegality*) or Clause 7.4 (*Right of cancellation and repayment in relation to a single Lender*)) shall be applied *pro rata* to each Lender's participation in that Utilisation.

**SECTION 5**

**COSTS OF UTILISATION**

**10. INTEREST**

**10.1 Calculation of interest**

The rate of interest on each Loan for each Interest Period is the percentage rate per annum which is the aggregate of the applicable:

- (a) Margin; and
- (b) LIBOR.

**10.2 Payment of interest**

The Borrower to which a Loan has been made shall pay accrued interest on that Loan on the last day of each Interest Period (and, if the Interest Period is longer than six Months, on the dates falling at six Monthly intervals after the first day of the Interest Period).

**10.3 Default interest**

- (a) If an Obligor fails to pay any amount payable by it under a Finance Document on its due date, interest shall accrue on the overdue amount from the due date up to the date of actual payment (both before and after judgment) at a rate which, subject to paragraph (b) below, is 1 per cent per annum higher than the rate which would have been payable if the overdue amount had, during the period of non-payment, constituted a Loan in the currency of the overdue amount for successive Interest Periods, each of a duration selected by the Agent (acting reasonably). Any interest accruing under this Clause 10.3 shall be immediately payable by the Obligor on demand by the Agent.
- (b) If any overdue amount consists of all or part of a Loan which became due on a day which was not the last day of an Interest Period relating to that Loan:
  - (i) the first Interest Period for that overdue amount shall have a duration equal to the unexpired portion of the current Interest Period relating to that Loan; and
  - (ii) the rate of interest applying to the overdue amount during that first Interest Period shall be 2 per cent per annum higher than the rate which would have applied if the overdue amount had not become due.
- (c) Default interest (if unpaid) arising on an overdue amount will be compounded with the overdue amount at the end of each Interest Period applicable to that overdue amount but will remain immediately due and payable.

**10.4 Notification of rates of interest**

- (a) The Agent shall promptly notify the relevant Lenders and the relevant Borrower (or the Company) of the determination of a rate of interest under this Agreement.
- (b) The Agent shall promptly notify the relevant Borrower (or the Company) of each Funding Rate relating to a Loan.



10.5 **Maximum Rate of Interest**

In relation to the obligation of a US Obligor under this Agreement, notwithstanding anything to the contrary contained in any Finance Document, the interest paid or agreed to be paid under the Finance Documents shall not exceed the maximum rate of non-usurious interest permitted by applicable Law (the "**Maximum Rate**"). If a US Obligor is liable in relation to interest to be received by the Agent or any Lender in an amount that exceeds the Maximum Rate, the excess interest shall, in relation to any US Obligor only, be applied to the principal of the Loans or, if and as long as it exceeds such unpaid principal, the US Obligor shall not be liable under this Agreement and such amount shall be refunded to such US Obligor. In determining whether the interest contracted for, charged, or received by the Agent or a Lender exceeds the Maximum Rate, such person may, to the extent permitted by applicable law, (i) characterise any payment that is not principal as an expense, fee, or premium rather than interest, (ii) exclude voluntary prepayments and the effects thereof, and (iii) amortise, prorate, allocate, and spread in equal or unequal parts the total amount of interest throughout the contemplated term of the Loans and Letters of Credit hereunder.

11. **INTEREST PERIODS**

11.1 **Selection of Interest Periods and Terms**

- (a) A Borrower (or the Company on behalf of a Borrower) may select an Interest Period for a Loan in the Utilisation Request for that Loan or (if the Loan has already been borrowed) in a Selection Notice.
- (b) Each Selection Notice for a Loan is irrevocable and must be delivered to the Agent by the Borrower (or the Company on behalf of the Borrower) not later than the Specified Time.
- (c) If a Borrower (or the Company) fails to deliver a Selection Notice to the Agent in accordance with paragraph (b) above, the relevant Interest Period will, subject to Clause 11.2 (*Changes to Interest Periods*), be one Month.
- (d) Subject to this Clause 11, a Borrower (or the Company) may select an Interest Period of one Month or of any other period agreed between the Company, the Agent (and all the Lenders in relation to the relevant Loan). In addition a Borrower (or the Company on its behalf) may select an Interest Period of a period of less than one Month, if necessary to ensure that the Interest Period for the Loan ends on a Repayment Date relating to the relevant Facility for the Borrowers to make the Repayment Instalment due on that date.
- (e) An Interest Period for a Loan shall not extend beyond the Termination Date.
- (f) Each Interest Period for a Loan shall start on the relevant Utilisation Date or (if already made) on the last day of its preceding Interest Period.

11.2 **Changes to Interest Periods**

- (a) Prior to determining the interest rate for any Loan, the Agent may shorten an Interest Period for that Loan to ensure the Interest Period for that Loan ends on the relevant Repayment Date for the Borrowers to make the relevant Repayment Instalment due on that date.
- (b) If the Agent makes any of the changes to an Interest Period referred to in this Clause 11.2, it shall promptly notify the Company and the Lenders.

11.3 **Non-Business Days**

If an Interest Period would otherwise end on a day which is not a Business Day, that Interest Period will instead end on the next Business Day in that calendar month (if there is one) or the preceding Business Day (if there is not).

12. **CHANGES TO THE CALCULATION OF INTEREST**

12.1 **Unavailability of Screen Rate**

- (a) *Interpolated Screen Rate*: If no Screen Rate is available for LIBOR for the Interest Period of a Loan, the applicable LIBOR shall be the Interpolated Screen Rate for a period equal in length to the Interest Period of that Loan.
- (b) *Reference Bank Rate*: If no Screen Rate is available for LIBOR for:
  - (i) US dollars; or
  - (ii) the Interest Period of a Loan and it is not possible to calculate the Interpolated Screen Rate,the applicable LIBOR shall be the Reference Bank Rate as of the Specified Time for the currency of that Loan and for a period equal in length to the Interest Period of that Loan.
- (c) *Cost of funds*: If paragraph (b) above applies but no Reference Bank Rate is available for the relevant currency or Interest Period there shall be no LIBOR for that Loan and Clause 12.4 (*Cost of funds*) shall apply to that Loan for that Interest Period.

12.2 **Calculation of Reference Bank Rate**

- (a) Subject to paragraph (b) below, if LIBOR is to be determined on the basis of a Reference Bank Rate but a Reference Bank does not supply a quotation by the Specified Time the Reference Bank Rate shall be calculated on the basis of the quotations of the remaining Reference Banks.
- (b) If at or about noon on the Quotation Day none or only one of the Reference Banks supplies a quotation, there shall be no Reference Bank Rate for the relevant Interest Period.

12.3 **Market disruption**

If before close of business in London on the Quotation Day for the relevant Interest Period the Agent receives notifications from a Lender or Lenders (whose participations in a Loan exceed 35 per cent. of that Loan) that the cost to it of funding its participation in that Loan from whatever source it may reasonably select would be in excess of LIBOR then Clause 12.4 (*Cost of funds*) shall apply to that Loan for the relevant Interest Period.

12.4 **Cost of funds**

- (a) If this Clause 12.4 applies, the rate of interest on the relevant Loan for the relevant Interest Period shall be the percentage rate per annum which is the sum of:
  - (i) the Margin; and

- (ii) the weighted average of the rates notified to the Agent by each Lender as soon as practicable and in any event by close of business on the date falling one Business Day after the Quotation Day (or, if earlier, on the date falling one Business Day before the date on which interest is due to be paid in respect of that Interest Period), to be that which expresses as a percentage rate per annum the cost to the relevant Lender of funding its participation in that Loan from whatever source it may reasonably select.
- (b) If this Clause 12.4 applies and the Agent or the Company so requires, the Agent and the Company shall enter into negotiations (for a period of not more than thirty days) with a view to agreeing a substitute basis for determining the rate of interest.
- (c) Any alternative basis agreed pursuant to paragraph (b) above shall, with the prior consent of all the Lenders and the Company, be binding on all Parties.
- (d) If this Clause 12.4 applies pursuant to Clause 12.3 (*Market disruption*) and:
  - (i) a Lender's Funding Rate is less than LIBOR; or
  - (ii) a Lender does not supply a quotation by the time specified in paragraph (a)(ii) above,the cost to that Lender of funding its participation in that Loan for that Interest Period shall be deemed, for the purposes of paragraph (a) above, to be LIBOR.

#### 12.5 **Notification to Company**

If Clause 12.4 (*Cost of funds*) applies the Agent shall, as soon as is practicable, notify the Company.

#### 12.6 **Break Costs**

- (a) Each Borrower shall, within three Business Days of demand by a Finance Party, pay to that Finance Party its Break Costs attributable to all or any part of a Loan or Unpaid Sum being paid by that Borrower on a day other than the last day of an Interest Period for that Loan or Unpaid Sum.
- (b) Each Lender shall, as soon as reasonably practicable after a demand by the Agent, provide a certificate confirming the amount of its Break Costs for any Interest Period in which they accrue.

### 13. **FEES**

#### 13.1 **Arrangement fee**

The Company shall pay to the Arranger an arrangement fee in the amount, manner and at the times agreed in a Fee Letter.

#### 13.2 **Agency and Security Agent fee**

The Company shall pay to the Agent an agency fee in the amount, manner and at the times agreed in a Fee Letter.

#### 13.3 **Prepayment fee**

If any Facility (or any part thereof) is prepaid or all or any part of the Commitments are cancelled for any reason, other than pursuant to Clause 8.2 (*Disposal, Insurance and*

*Acquisition Proceeds*) (whether by voluntary prepayment by the Borrower, by reason of the occurrence of an Event of Default or the acceleration of any Facility, or otherwise, or if any Facility shall become accelerated and due and payable in full), in each case, prior to the third anniversary of the First Effective Date, the Borrower shall pay with the proposed prepayment a fee in an amount equal to:

- (i) on or prior to the first anniversary of the First Effective Date, three per cent. of the amount of the principal repaid;
- (ii) after the first anniversary but on or prior to the second anniversary of the First Effective Date, two per cent. of the amount of the principal repaid; and
- (iii) after the second anniversary but on or prior to the third anniversary of the First Effective Date, one per cent. of the amount of the principal repaid.

13.4 **Final Payment fee**

The Company shall pay to the Agent a final payment fee in the amount, manner and at the times agreed in a Fee Letter.

SECTION 6

ADDITIONAL PAYMENT OBLIGATIONS

14. TAX GROSS UP AND INDEMNITIES

14.1 Definitions

In this Agreement:

**"Borrower DTTP Filing"** means an HM Revenue & Customs' Form DTTP2 duly completed and filed by the relevant Borrower, which:

- (a) where it relates to a Treaty Lender that is an Original Lender, contains the scheme reference number and jurisdiction of tax residence stated opposite that Lender's name in Part 2 of Schedule 1 (*The Original Parties*), and:
  - (i) where the Borrower is an Original Borrower is filed with HM Revenue & Customs within 30 days of the Original Effective Date; or
  - (ii) where the Borrower is an Additional Borrower, is filed with HM Revenue & Customs within 30 days of the date on which that Borrower becomes an Additional Borrower, or
- (b) where it relates to a Treaty Lender that is not an Original Lender, contains the scheme reference number and jurisdiction of tax residence stated in respect of that Lender in the documentation which it executes on becoming a Party as a Lender, and:
  - (i) where the Borrower is a Borrower as at the date on which that Treaty Lender becomes a Party as a Lender, is filed with HM Revenue & Customs within 30 days of that date; or
  - (ii) where the Borrower is not a Borrower as at the date on which that Treaty Lender becomes a Party as a Lender, is filed with HM Revenue & Customs within 30 days of the date on which that Borrower becomes an Additional Borrower;

**"Protected Party"** means a Finance Party which is or will be subject to any liability or required to make any payment for or on account of Tax in relation to a sum received or receivable (or any sum deemed for the purposes of Tax to be received or receivable) under a Finance Document;

**"Qualifying Lender"** means:

- (a) a Lender which is beneficially entitled to interest payable to that Lender in respect of an advance under a Finance Document and is:
  - (i) a Lender:
    - (1) which is a bank (as defined for the purpose of section 879 of the ITA) making an advance under a Finance Document and is within the charge to United Kingdom corporation tax as respects any payments of interest made in respect of that advance or would be within such charge as respects such payments apart from section 18A of the CTA; or

- (2) in respect of an advance made under a Finance Document by a person that was a bank (as defined for the purpose of section 879 of the ITA) at the time that that advance was made and within the charge to United Kingdom corporation tax as respects any payments of interest made in respect of that advance; or
- (ii) a Lender which is:
  - (1) a company resident in the United Kingdom for United Kingdom tax purposes;
  - (2) a partnership each member of which is:
    - (aa) a company so resident in the United Kingdom; or
    - (bb) a company not so resident in the United Kingdom which carries on a trade in the United Kingdom through a permanent establishment and which brings into account in computing its chargeable profits (within the meaning of section 19 of the CTA) the whole of any share of interest payable in respect of that advance that falls to it by reason of Part 17 of the CTA;
  - (3) a company not so resident in the United Kingdom which carries on a trade in the United Kingdom through a permanent establishment and which brings into account interest payable in respect of that advance in computing the chargeable profits (within the meaning of section 19 of the CTA) of that company; or
- (iii) a Treaty Lender; or
- (b) a Lender which is a building society (as defined for the purposes of section 880 of the ITA) making an advance under a Finance Document;

**"Tax Confirmation"** means a confirmation by a Lender that the person beneficially entitled to interest payable to that Lender in respect of an advance under a Finance Document is either:

- (a) a company resident in the United Kingdom for United Kingdom tax purposes;
- (b) a partnership each member of which is:
  - (i) a company so resident in the United Kingdom; or
  - (ii) a company not so resident in the United Kingdom which carries on a trade in the United Kingdom through a permanent establishment and which brings into account in computing its chargeable profits (within the meaning of section 19 of the CTA) the whole of any share of interest payable in respect of that advance that falls to it by reason of Part 17 of the CTA; or
- (c) a company not so resident in the United Kingdom which carries on a trade in the United Kingdom through a permanent establishment and which brings into account interest payable in respect of that advance in computing the chargeable profits (within the meaning of section 19 of the CTA) of that company;

**"Tax Credit"** means a credit against, relief or remission for, or repayment of, any Tax.

**"Tax Deduction"** means a deduction or withholding for or on account of Tax from a payment under a Finance Document, other than a FATCA Deduction.

**"Tax Payment"** means either the increase in a payment made by an Obligor to a Finance Party under Clause 14.2 (*Tax gross-up*) or a payment under Clause 14.3 (*Tax indemnity*).

**"Treaty Lender"** means a Lender which:

- (a) is treated as a resident of a Treaty State for the purposes of the Treaty;
- (b) does not carry on a business in the United Kingdom through a permanent establishment with which that Lender's participation in the Loan is effectively connected; and
- (c) meets all other conditions in the Treaty for full exemption from Tax on interest imposed by the United Kingdom (except that for this purpose it shall be assumed that there is no special relationship between the Borrower and the Lender or between both of them and a third person), subject to completion of procedural formalities.

**"Treaty State"** means a jurisdiction having a double taxation agreement (a **"Treaty"**) with the United Kingdom which makes provision for full exemption from tax imposed by the United Kingdom on interest;

**"UK Non-Bank Lender"** means:

- (a) An Original Lender listed in Part 2 of Schedule 1 (*The Original Parties*); and
- (b) a Lender which is not an Original Lender and which gives a Tax Confirmation in the documentation which it executes on becoming a Party as a Lender.

Unless a contrary indication appears, in this Clause 14.1 a reference to **"determines"** or **"determined"** means a determination made in the absolute discretion of the person making the determination.

#### 14.2 **Tax gross-up**

- (a) Each Obligor shall make all payments to be made by it under a Finance Document without any Tax Deduction, unless a Tax Deduction is required by law.
- (b) The Company shall promptly upon becoming aware that an Obligor must make a Tax Deduction (or that there is any change in the rate or the basis of a Tax Deduction) notify the Agent accordingly. Similarly, a Lender shall promptly notify the Agent on becoming so aware in respect of a payment payable to that Lender. If the Agent receives such notification from a Lender it shall promptly notify the Company and that Obligor.
- (c) If a Tax Deduction is required by law to be made by an Obligor, the amount of the payment due from that Obligor shall be increased to an amount which (after making any Tax Deduction) leaves an amount equal to the payment which would have been due if no Tax Deduction had been required.
- (d) A payment shall not be increased under paragraph (c) above by reason of a Tax Deduction on account of Tax imposed by the United Kingdom, if on the date on which the payment falls due:

- (i) the payment could have been made to the relevant Lender without a Tax Deduction if the Lender had been a Qualifying Lender, but on that date that Lender is not or has ceased to be a Qualifying Lender other than as a result of any change after the date it became a Lender under this Agreement in (or in the interpretation, administration, or application of) any law or Treaty, or any published practice or published concession of any relevant taxing authority; or
  - (ii) the relevant Lender is a Qualifying Lender solely by virtue of paragraph (a)(ii) of the definition of "Qualifying Lender"; and
    - (1) an officer of H.M. Revenue & Customs has given (and not revoked) a direction (a "**Direction**") under section 931 of the ITA which relates to the payment and that Lender has received from the Obligor making the payment or from the Company a certified copy of that Direction; and
    - (2) the payment could have been made to the Lender without any Tax Deduction if that Direction had not been made; or
  - (iii) the relevant Lender is a Qualifying Lender solely by virtue of paragraph (a)(ii) of the definition of "Qualifying Lender" and:
    - (1) the relevant Lender has not given a Tax Confirmation to the Company; and
    - (2) the payment could have been made to the Lender without any Tax Deduction if the Lender had given a Tax Confirmation to the Company, on the basis that the Tax Confirmation would have enabled the Company to have formed a reasonable belief that the payment was an "excepted payment" for the purpose of section 930 of the ITA; or
  - (iv) the relevant Lender is a Treaty Lender and the Obligor making the payment is able to demonstrate that the payment could have been made to the Lender without the Tax Deduction had that Lender complied with its obligations under paragraph (g) or (h) (as applicable) below.
- (e) If an Obligor is required to make a Tax Deduction, that Obligor shall make that Tax Deduction and any payment required in connection with that Tax Deduction within the time allowed and in the minimum amount required by law.
- (f) Within 30 days of making either a Tax Deduction or any payment required in connection with that Tax Deduction, the Obligor making that Tax Deduction shall deliver to the Agent for the Finance Party entitled to the payment a statement under section 975 of the ITA or other evidence reasonably satisfactory to that Finance Party that the Tax Deduction has been made or (as applicable) any appropriate payment paid to the relevant taxing authority.
- (i) Subject to paragraph (ii) below, a Treaty Lender and each Obligor which makes a payment to which that Treaty Lender is entitled shall co-operate in completing any procedural formalities necessary for that Obligor to obtain



authorisation to make that payment without a Tax Deduction (or with a reduced Tax Deduction);

- (1) a Treaty Lender which is an Original Lender and that holds a passport under the HMRC DT Treaty Passport scheme, and which wishes that scheme to apply to this Agreement, shall confirm its scheme reference number and its jurisdiction of tax residence opposite its name in Part 2 of Schedule 1 (*The Original Parties*); and
- (2) a Treaty Lender which is not an Original Lender and that holds a passport under the HMRC DT Treaty Passport scheme, and which wishes that scheme to apply to this Agreement, shall confirm its scheme reference number and its jurisdiction of tax residence in the documentation which it executes on becoming a Party as a Lender,

and, having done so, that Lender shall be under no obligation pursuant to paragraph (i) above and the Borrower shall make a Borrower DTTP Filing.

- (h) If a Lender has confirmed its scheme reference number and its jurisdiction of tax residence in accordance with paragraph (g)(ii) above and:
- (i) a Borrower making a payment to that Lender has not made a Borrower DTTP Filing in respect of that Lender; or
  - (ii) a Borrower making a payment to that Lender has made a Borrower DTTP Filing in respect of that Lender but:
    - (1) that Borrower DTTP Filing has been rejected by HM Revenue & Customs; or
    - (2) HM Revenue & Customs has not given the Borrower authority to make payments to that Lender without a Tax Deduction within 60 days of the date of the Borrower DTTP Filing,

and in each case, the Borrower has notified that Lender in writing, that Lender and the Borrower shall co-operate in completing any additional procedural formalities necessary for that Borrower to obtain authorisation to make that payment without a Tax Deduction.

- (i) If a Lender has not confirmed its scheme reference number and jurisdiction of tax residence in accordance with paragraph (g)(ii) above, no Obligor shall make a Borrower DTTP Filing or file any other form relating to the HMRC DT Treaty Passport scheme in respect of that Lender's Commitment(s) or its participation in any Utilisation unless the Lender otherwise agrees.
- (j) A Borrower shall, promptly on making a Borrower DTTP Filing, deliver a copy of that Borrower DTTP Filing to the Agent for delivery to the relevant Lender.
- (k) A UK Non-Bank Lender which is an Original Lender gives a Tax Confirmation to the Company by entering into this Agreement.
- (l) A UK Non-Bank Lender shall promptly notify the Company and the Agent if there is any change in the position from that set out in the Tax Confirmation.

14.3 **Tax indemnity**

- (a) The Company shall (within three Business Days of demand by the Agent) pay to a Protected Party an amount equal to the loss, liability or cost which that Protected Party determines will be or has been (directly or indirectly) suffered for or on account of Tax by that Protected Party in respect of a Finance Document.
- (b) Paragraph (a) above shall not apply:
  - (i) with respect to any Tax assessed on a Finance Party:
    - (1) under the law of the jurisdiction in which that Finance Party is incorporated or, if different, the jurisdiction (or jurisdictions) in which that Finance Party is treated as resident for tax purposes; or
    - (2) under the law of the jurisdiction in which that Finance Party's Facility Office is located in respect of amounts received or receivable in that jurisdiction; or
    - (3) under the law of the jurisdiction in which the Finance Party otherwise has a permanent establishment (as defined in Article 5 of the OECD Model Tax Convention) through which it performs its obligations under the Finance Documents in respect of amounts received or receivable in that jurisdiction,  
  
if that Tax is imposed on or calculated by reference to the net income received or receivable (but not any sum deemed to be received or receivable) by that Finance Party; or
  - (ii) to the extent a loss, liability or cost:
    - (1) is compensated for by an increased payment under Clause 14.2 (*Tax gross-up*), Clause 14.6 (*Stamp taxes*) or Clause 14.7 (*Value added tax*); or
    - (2) would have been compensated for by an increased payment under Clause 14.2 (*Tax gross-up*), Clause 14.6 (*Stamp taxes*) or Clause 14.7 (*Value added tax*) or Clause 15.1 (*Increased costs*) but was not so compensated solely because one of the exclusions in paragraph (d) of Clause 14.2 (*Tax gross-up*), Clause 14.6 (*Stamp taxes*), Clause 14.7 (*Value added tax*) or Clause 15.3 (*Exceptions*) (other than paragraph (a)(iii) of Clause 15.3 (*Exceptions*)) (as applicable) applied; or
    - (3) is in respect of any Bank Levy (or any payment attributable to, or liability arising as a consequence of, a Bank Levy); or
    - (4) relates to a FATCA Deduction required to be made by a Party.
- (c) A Protected Party making, or intending to make a claim under paragraph (a) above shall promptly notify the Agent of the event which will give, or has given, rise to the claim, following which the Agent shall notify the Company.
- (d) A Protected Party shall, on receiving a payment from an Obligor under this Clause 14.3, notify the Agent.

14.4 **Tax Credit**

If an Obligor makes a Tax Payment and the relevant Finance Party determines that:

- (a) a Tax Credit is attributable to an increased payment of which that Tax Payment forms part, to that Tax Payment or to a Tax Deduction in consequence of which that Tax Payment was required; and
- (b) that Finance Party has obtained and utilised that Tax Credit,

the Finance Party shall pay an amount to the Obligor which that Finance Party determines will leave it (after that payment) in the same after-Tax position as it would have been in had the Tax Payment not been required to be made by the Obligor.

14.5 **Lender status confirmation**

Each Lender which is not an Original Lender shall indicate, in the documentation which it executes on becoming a Party as a Lender, and for the benefit of the Agent and without liability to any Obligor, which of the following categories it falls in:

- (a) not a Qualifying Lender;
- (b) a Qualifying Lender (other than a Treaty Lender); or
- (c) a Treaty Lender.

If such a Lender fails to indicate its status in accordance with this Clause 14.5 then that Lender shall be treated for the purposes of this Agreement (including by each Obligor) as if it is not a Qualifying Lender until such time as it notifies the Agent which category applies (and the Agent upon receipt of such notification, shall inform the Company). For the avoidance of doubt, the documentation which a Lender executes on becoming a Party as a Lender shall not be invalidated by any failure of a Lender to comply with this Clause 14.5.

14.6 **Stamp taxes**

The Company shall pay and, within three Business Days of demand, indemnify each Finance Party against any cost, loss or liability that Finance Party incurs in relation to all stamp duty, registration and other similar Taxes payable in respect of any Finance Document, other than in connection with an assignment or transfer by a Lender of any rights under this Agreement.

14.7 **Value added tax**

- (a) All amounts expressed to be payable under a Finance Document by any Party to a Finance Party which (in whole or in part) constitute the consideration for any supply for VAT purposes are deemed to be exclusive of any VAT which is chargeable on that supply, and accordingly, subject to paragraph (b) below, if VAT is or becomes chargeable on any supply made by any Finance Party to any Party under a Finance Document and such Finance Party is required to account to the relevant tax authority for the VAT, that Party must pay to such Finance Party (in addition to and at the same time as paying any other consideration for such supply) an amount equal to the amount of the VAT (and such Finance Party must promptly provide an appropriate VAT invoice to that Party).
- (b) If VAT is or becomes chargeable on any supply made by any Finance Party (the "**Supplier**") to any other Finance Party (the "**Recipient**") under a Finance

Document, and any Party other than the Recipient (the "**Relevant Party**") is required by the terms of any Finance Document to pay an amount equal to the consideration for that supply to the Supplier (rather than being required to reimburse or indemnify the Recipient in respect of that consideration):

- (i) (where the Supplier is the person required to account to the relevant tax authority for the VAT) the Relevant Party must also pay to the Supplier (at the same time as paying that amount) an additional amount equal to the amount of the VAT. The Recipient must (where this paragraph (i) applies) promptly pay to the Relevant Party an amount equal to any credit or repayment the Recipient receives from the relevant tax authority which the Recipient reasonably determines relates to the VAT chargeable on that supply; and
  - (ii) (where the Recipient is the person required to account to the relevant tax authority for the VAT) the Relevant Party must promptly, following demand from the Recipient, pay to the Recipient an amount equal to the VAT chargeable on that supply but only to the extent that the Recipient reasonably determines that it is not entitled to credit or repayment from the relevant tax authority in respect of that VAT.
- (c) Where a Finance Document requires any Party to reimburse or indemnify a Finance Party for any cost or expense, that Party shall reimburse or indemnify (as the case may be) such Finance Party for the full amount of such cost or expense, including such part thereof as represents VAT, save to the extent that such Finance Party reasonably determines that it is entitled to credit or repayment in respect of such VAT from the relevant tax authority.
- (d) Any reference in this Clause 14.7 to any Party shall, at any time when such Party is treated as a member of a group for VAT purposes, include (where appropriate and unless the context otherwise requires) a reference to the representative member of such group at such time (the term "representative member" to have the same meaning as in the Value Added Tax Act 1994).
- (e) In relation to any supply made by a Finance Party to any Party under a Finance Document, if reasonably requested by such Finance Party, that Party must promptly provide such Finance Party with details of that Party's VAT registration and such other information as is reasonably requested in connection with such Finance Party's VAT reporting requirements in relation to such supply.

14.8

**FATCA Information**

- (a) Subject to paragraph (c) below, each Party shall, within ten Business Days of a reasonable request by another Party:
- (i) confirm to that other Party whether it is:
    - (1) a FATCA Exempt Party; or
    - (2) not a FATCA Exempt Party;
  - (ii) supply to that other Party such forms, documentation and other information relating to its status under FATCA as that other Party reasonably requests for the purposes of that other Party's compliance with FATCA;

- (iii) supply to that other Party such forms, documentation and other information relating to its status as that other Party reasonably requests for the purposes of that other Party's compliance with any other law, regulation, or exchange of information regime.
- (b) If a Party confirms to another Party pursuant to paragraph (a)(i) above that it is a FATCA Exempt Party and it subsequently becomes aware that it is not or has ceased to be a FATCA Exempt Party, that Party shall notify that other Party reasonably promptly.
- (c) Paragraph (a) above shall not oblige any Finance Party to do anything, and paragraph (a)(iii) above shall not oblige any other Party to do anything, which would or might in its reasonable opinion constitute a breach of:
  - (i) any law or regulation;
  - (ii) any fiduciary duty; or
  - (iii) any duty of confidentiality.
- (d) If a Party fails to confirm whether or not it is a FATCA Exempt Party or to supply forms, documentation or other information requested in accordance with paragraph (a)(i) or (a)(ii) above (including, for the avoidance of doubt, where paragraph (c) above applies), then such Party shall be treated for the purposes of the Finance Documents (and payments under them) as if it is not a FATCA Exempt Party until such time as the Party in question provides the requested confirmation, forms, documentation or other information.
- (e) If a Borrower is a US Tax Obligor or if a Borrower or the Agent reasonably believes that its obligations under FATCA or any other applicable law or regulation require it, each Lender shall, within ten Business Days of:
  - (i) where an Original Borrower is a US Tax Obligor and the relevant Lender is an Original Lender, the Original Effective Date;
  - (ii) where a Borrower is a US Tax Obligor on a date on which any other Lender becomes a Party as a Lender, that date;
  - (iii) the date a new US Tax Obligor accedes as a Borrower; or
  - (iv) where a Borrower is not a US Tax Obligor, the date of a request from the relevant Borrower or the Agent,supply to the Agent:
  - (1) a withholding certificate on Form W-8, Form W-9 or any other relevant form; or
  - (2) any withholding statement or other document, authorisation or waiver as the Agent may require to certify or establish the status of such Lender under FATCA or that other law or regulation.
- (f) The Agent shall provide any withholding certificate, withholding statement, document, authorisation or waiver it receives from a Lender pursuant to paragraph (e) above to the relevant Borrower.

- (g) If any withholding certificate, withholding statement, document, authorisation or waiver provided to the Agent by a Lender pursuant to paragraph (e) above is or becomes materially inaccurate or incomplete, that Lender shall promptly update it and provide such updated withholding certificate, withholding statement, document, authorisation or waiver to the Agent unless it is unlawful for the Lender to do so (in which case the Lender shall promptly notify the Agent). The Agent shall provide any such updated withholding certificate, withholding statement, document, authorisation or waiver to the relevant Borrower.
- (h) The Agent may rely on any withholding certificate, withholding statement, document, authorisation or waiver it receives from a Lender pursuant to paragraph (e) or (g) above without further verification. The Agent shall not be liable for any action taken by it under or in connection with paragraphs (e), (f) or (g) above.

14.9 **FATCA Deduction**

- (a) Each Party may make any FATCA Deduction it is required to make by FATCA, and any payment required in connection with that FATCA Deduction, and no Party shall be required to increase any payment in respect of which it makes such a FATCA Deduction or otherwise compensate the recipient of the payment for that FATCA Deduction.
- (b) Each Party shall promptly, upon becoming aware that it must make a FATCA Deduction (or that there is any change in the rate or the basis of such FATCA Deduction), notify the Party to whom it is making the payment and, in addition, shall notify the Company and the Agent and the Agent shall notify the other Finance Parties.

15. **INCREASED COSTS**

15.1 **Increased costs**

- (a) Subject to Clause 15.3 (*Exceptions*) the Company shall, within three Business Days of a demand by the Agent, pay for the account of a Finance Party the amount of any Increased Costs incurred by that Finance Party or any of its Affiliates:
  - (i) as a result of (1) the introduction of or any change in (or in the interpretation, administration or application of) any law or regulation or (2) compliance with any law or regulation made after the Original Effective Date; or
  - (ii) attributable to the implementation or application of or compliance with Basel III or CRD IV or any other law or regulation which implements Basel III or CRD IV (whether such implementation, application or compliance is by a government, regulator, that Finance Party or any of its Affiliates) only to the extent not reasonably calculated prior to the Original Effective Date.
- (b) In this Agreement:
  - (i) **"Increased Costs"** means:
    - (1) a reduction in the rate of return from a Facility or on a Finance Party's (or its Affiliate's) overall capital;
    - (2) an additional or increased cost; or

(3) a reduction of any amount due and payable under any Finance Document,

which is incurred or suffered by a Finance Party or any of its Affiliates but only to the extent attributable to that Finance Party having entered into its Commitment or funding or performing its obligations under any Finance Document.

(ii) "**Basel III**" means:

- (1) the agreements on capital requirements, a leverage ratio and liquidity standards contained in "Basel III: A global regulatory framework for more resilient banks and banking systems", "Basel III: International framework for liquidity risk measurement, standards and monitoring" and "Guidance for national authorities operating the countercyclical capital buffer" published by the Basel Committee on Banking Supervision in December 2010, each as amended, supplemented or restated;
- (2) the rules for global systemically important banks contained in "Global systemically important banks: assessment methodology and the additional loss absorbency requirement – Rules text" published by the Basel Committee on Banking Supervision in November 2011, as amended, supplemented or restated; and
- (3) any further guidance or standards published by the Basel Committee on Banking Supervision relating to "Basel III";

(iii) "**CRD IV**" means:

- (1) Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms; and
- (2) Directive 2013/36/EU of the European Parliament and of the Council of 26 June 2013 on access to the activity of credit institutions and the prudential supervision of credit institutions and investment firms, amending Directive 2002/87/EC and repealing Directives 2006/48/EC and 2006/49/EC;

or any law, rules or guidance by which either of them is implemented.

## 15.2 **Increased cost claims**

- (a) A Finance Party intending to make a claim pursuant to Clause 15.1 (*Increased Costs*) shall notify the Agent of the event giving rise to the claim, following which the Agent shall promptly notify the Company.
- (b) Each Finance Party shall, as soon as practicable after a demand by the Agent, provide a certificate confirming the amount of its Increased Costs.

## 15.3 **Exceptions**

- (a) Clause 15.1 (*Increased costs*) does not apply to the extent any Increased Cost is:
  - (i) attributable to a Tax Deduction required by law to be made by an Obligor;

- (ii) attributable to a FATCA Deduction required to be made by a Party;
  - (iii) compensated for by Clause 14.3 (*Tax indemnity*), Clause 14.6 (*Stamp taxes*) or Clause 14.7 (*Value added tax*) (or would have been compensated for under Clause 14.3 (*Tax indemnity*), Clause 14.6 (*Stamp taxes*) or Clause 14.7 (*Value added tax*) but was not so compensated solely because any of the exclusions in paragraph (b) of Clause 14.3 (*Tax indemnity*), Clause 14.6 (*Stamp taxes*) or Clause 14.7 (*Value added tax*) (as applicable) applied);
  - (iv) in respect of any Bank Levy (or any payment attributable to, or liability arising as a consequence of, a Bank Levy); or
  - (v) attributable to the wilful breach by the relevant Finance Party or its Affiliates of any law or regulation.
- (b) In this Clause 15.3 reference to a "**Tax Deduction**" has the same meaning given to the term in Clause 14.1 (*Definitions*).

16. **OTHER INDEMNITIES**

16.1 **Currency indemnity**

- (a) If any sum due from an Obligor under the Finance Documents (a "**Sum**"), or any order, judgment or award given or made in relation to a Sum, has to be converted from the currency (the "**First Currency**") in which that Sum is payable into another currency (the "**Second Currency**") for the purpose of:
- (i) making or filing a claim or proof against that Obligor; or
  - (ii) obtaining or enforcing an order, judgment or award in relation to any litigation or arbitration proceedings,
- that Obligor shall as an independent obligation, within three Business Days of demand, indemnify each Secured Party to whom that Sum is due against any cost, loss or liability arising out of or as a result of the conversion including any discrepancy between (1) the rate of exchange used to convert that Sum from the First Currency into the Second Currency and (2) the rate or rates of exchange available to that person at the time of its receipt of that Sum.
- (b) Each Obligor waives any right it may have in any jurisdiction to pay any amount under the Finance Documents in a currency or currency unit other than that in which it is expressed to be payable.

16.2 **Other indemnities**

The Company shall (or shall procure that an Obligor will), within three Business Days of demand, indemnify the Arranger and each other Secured Party against any cost, loss or liability incurred by it as a result of:

- (a) the occurrence or continuance of any Event of Default;
- (b) a failure by an Obligor to pay any amount due under a Finance Document on its due date, including without limitation, any cost, loss or liability arising as a result of Clause 30 (*Sharing among the Finance Parties*);



- (c) funding, or making arrangements to fund, its participation in a Utilisation requested by the Company or a Borrower in a Utilisation Request but not made by reason of the operation of any one or more of the provisions of this Agreement (other than by reason of default or negligence by that Finance Party alone);
- (d) a Utilisation (or part of a Utilisation) not being prepaid in accordance with a notice of prepayment given by a Borrower or the Company.

16.3 **Indemnity to the Agent**

The Company shall promptly indemnify the Agent against:

- (a) any cost, loss or liability incurred by the Agent (acting reasonably) as a result of:
  - (i) investigating any event which it reasonably believes is a Default;
  - (ii) acting or relying on any notice, request or instruction which it reasonably believes to be genuine, correct and appropriately authorised; or
  - (iii) instructing lawyers, accountants, tax advisers, surveyors or other professional advisers or experts as permitted under this Agreement; and
- (b) any cost, loss or liability (including, without limitation, for negligence or any other category of liability whatsoever) incurred by the Agent (otherwise than by reason of the Agent's gross negligence or wilful misconduct) (or, in the case of any cost, loss or liability pursuant to Clause 31.11 (*Disruption to payment systems etc.*) notwithstanding the Agent's negligence, gross negligence or any other category of liability whatsoever but not including any claim based on the fraud of the Agent) in acting as Agent under the Finance Documents.

16.4 **Indemnity to the Security Agent**

- (a) Each Obligor jointly and severally shall promptly indemnify the Security Agent and every Receiver and Delegate against any cost, loss or liability incurred by any of them as a result of:
  - (i) any failure by the Company to comply with its obligations under Clause 18 (*Costs and expenses*);
  - (ii) acting or relying on any notice, request or instruction which it reasonably believes to be genuine, correct and appropriately authorised;
  - (iii) the taking, holding, protection or enforcement of the Transaction Security;
  - (iv) the exercise of any of the rights, powers, discretions, authorities and remedies vested in the Security Agent and each Receiver and Delegate by the Finance Documents or by law;
  - (v) any default by any Obligor in the performance of any of the obligations expressed to be assumed by it in the Finance Documents; or
  - (vi) acting as Security Agent, Receiver or Delegate under the Finance Documents or which otherwise relates to any of the Charged Property (otherwise, in each case, than by reason of the relevant Security Agent's, Receiver's or Delegate's gross negligence or wilful misconduct).

- (b) The Security Agent and every Receiver and Delegate may, in priority to any payment to the Secured Parties, indemnify itself out of the Charged Property in respect of, and pay and retain, all sums necessary to give effect to the indemnity in this Clause 16.4 and shall have a lien on the Transaction Security and the proceeds of the enforcement of the Transaction Security for all moneys payable to it.

17. **MITIGATION BY THE LENDERS**

17.1 **Mitigation**

- (a) Each Finance Party shall, in consultation with the Company, take all reasonable steps to mitigate any circumstances which arise and which would result in any Facility ceasing to be available or any amount becoming payable under or pursuant to, or cancelled pursuant to, any of Clause 7.1 (*Illegality*), Clause 14 (*Tax gross-up and indemnities*) or Clause 15 (*Increased costs*) including (but not limited to) transferring its rights and obligations under the Finance Documents to another Affiliate or Facility Office.
- (b) Paragraph (a) above does not in any way limit the obligations of any Obligor under the Finance Documents.

17.2 **Limitation of liability**

- (a) The Company shall promptly indemnify each Finance Party for all costs and expenses reasonably incurred by that Finance Party as a result of steps taken by it under Clause 17.1 (*Mitigation*).
- (b) A Finance Party is not obliged to take any steps under Clause 17.1 (*Mitigation*) if, in the opinion of that Finance Party (acting reasonably), to do so might be prejudicial to it.

18. **COSTS AND EXPENSES**

18.1 **Transaction expenses**

The Company shall promptly on demand pay the Agent, the Arranger and the Security Agent the amount of all costs and expenses (including pre-approved legal fees) reasonably incurred by any of them (and, in the case of the Security Agent, by any Receiver or Delegate) in connection with the negotiation, preparation, printing, execution, completion, syndication and perfection of:

- (a) this Agreement and any other documents referred to in this Agreement and the Transaction Security; and
- (b) any other Finance Documents executed after the Original Effective Date.

18.2 **Amendment costs**

If:

- (a) an Obligor requests an amendment, waiver or consent; or
- (b) an amendment is required pursuant to Clause 31.10 (*Change of currency*),

the Company shall, within three Business Days of demand, reimburse each of the Agent and the Security Agent for the amount of all costs and expenses (including legal fees) reasonably incurred by the Agent and the Security Agent (and, in the case of the Security

Agent, by any Receiver or Delegate) in responding to, evaluating, negotiating or complying with that request or requirement.

18.3 **Security Agent's additional remuneration**

- (a) In the event of:
- (i) the occurrence of an Event of Default; or
  - (ii) the Security Agent and the Company agreeing that it is otherwise appropriate in the circumstances,
- the Company shall pay to the Security Agent any additional remuneration that may be agreed between them or determined pursuant to paragraph (b) below.
- (b) If the Security Agent and the Company fail to agree upon the nature of the duties, or upon the additional remuneration referred to in paragraph (a) above or whether additional remuneration is appropriate in the circumstances, any dispute shall be determined by an investment bank (acting as an expert and not as an arbitrator) selected by the Security Agent and approved by the Company or, failing approval, nominated (on the application of the Security Agent) by the President for the time being of the Law Society of England and Wales (the costs of the nomination and of the investment bank being payable by the Company) and the determination of any investment bank shall be final and binding upon the Parties.

18.4 **Enforcement and preservation costs**

The Company shall, within three Business Days of demand, pay to each Secured Party on a full indemnity basis the amount of all costs and expenses (including legal, valuation, accountancy and consulting fees and commission and out of pocket expenses) and any VAT thereon incurred by it in connection with the enforcement of or the preservation of or the release of any rights under any Finance Document or any of the documents referred to in such documents in any jurisdiction and any proceedings instituted by or against the Security Agent as a consequence of taking or holding the Transaction Security or enforcing these rights.

**SECTION 7**

**GUARANTEE AND INDEMNITY**

**19. GUARANTEE AND INDEMNITY**

**19.1 Guarantee and indemnity**

Each Guarantor irrevocably and unconditionally jointly and severally:

- (a) guarantees to each Finance Party punctual performance by each other Obligor of all that Obligor's obligations under the Finance Documents (including, without limitation:
  - (i) obligations which, but for the automatic stay under section 362(a) of the US Bankruptcy Code, would become due; provided that, anything to the contrary contained in the foregoing notwithstanding, the obligations so guaranteed shall exclude any Excluded Swap Obligations; and
  - (ii) any interest accruing after the commencement of any proceeding under any US Debtor Relief Law at the rate provided for in this Agreement, whether or not such interest is an allowed claim in any such proceeding);
- (b) undertakes with each Finance Party that whenever another Obligor does not pay any amount when due under or in connection with any Finance Document, that Guarantor shall immediately on demand pay that amount as if it was the principal obligor; and
- (c) agrees with each Finance Party that if any obligation guaranteed by it is or becomes unenforceable, invalid or illegal, it will, as an independent and primary obligation, indemnify that Finance Party immediately on demand against any cost, loss or liability it incurs as a result of an Obligor not paying any amount which would, but for such unenforceability, invalidity or illegality have been payable by it under any Finance Document on the date when it would have been due. The amount payable by a Guarantor under this indemnity will not exceed the amount it would have had to pay under this Clause 19 if the amount claimed had been recoverable on the basis of a guarantee.

**19.2 Continuing guarantee**

This guarantee is a continuing guarantee and will extend to the ultimate balance of sums payable by any Obligor under the Finance Documents, regardless of any intermediate payment or discharge in whole or in part.

**19.3 Reinstatement**

If any discharge, release or arrangement (whether in respect of the obligations of any Obligor or any security for those obligations or otherwise) is made by a Finance Party in whole or in part on the basis of any payment, security or other disposition which is avoided or must be restored on insolvency, liquidation, administration or otherwise, without limitation, then the liability of each Guarantor under this Clause 19 will continue or be reinstated as if the discharge, release or arrangement had not occurred.

#### 19.4 **Waiver of defences**

The obligations of each Guarantor under this Clause 19 will not be affected by an act, omission, matter or thing which, but for this Clause 19, would reduce, release or prejudice any of its obligations under this Clause 19 (without limitation and whether or not known to it or any Finance Party) including:

- (a) any time, waiver or consent granted to, or composition with, any Obligor or other person;
- (b) the release of any other Obligor or any other person under the terms of any composition or arrangement with any creditor of any member of the Group;
- (c) the taking, variation, compromise, exchange, renewal or release of, or refusal or neglect to perfect, take up or enforce, any rights against, or security over assets of, any Obligor or other person or any non-presentation or non-observance of any formality or other requirement in respect of any instrument or any failure to realise the full value of any Security;
- (d) any legal limitation, incapacity or lack of power, authority or legal personality of or dissolution or change in the members or status of an Obligor or any other person;
- (e) any amendment, novation, supplement, extension or restatement (however fundamental and whether or not more onerous) or replacement of a Finance Document or any other document or Security including any change in the purpose of, any extension of or increase in any facility or the addition of any new facility under any Finance Document or other document or Security;
- (f) any unenforceability, illegality, invalidity or frustration of any obligation of any person under any Finance Document or any other document or Security;
- (g) the failure of any member of the Group to enter into or be bound by any Finance Document;
- (h) any action (or decision not to act) taken by a Finance Party (or any trustee or agent on its behalf) in accordance with Clause 19.7 (*Appropriations*); or
- (i) any insolvency, dissolution or similar proceedings or from any law, regulation or order.

Each Guarantor agrees that, as between that Guarantor and the Finance Parties, all amounts outstanding under this Agreement may be declared to be forthwith due and payable as provided in this Agreement for the purposes of this Clause 19, notwithstanding any stay (including under the US Bankruptcy Code), injunction or other prohibition preventing the same as against any other Obligor and that, in such event, all such amounts (whether or not due and payable by any such other Obligor) shall forthwith become due and payable by the Guarantor for the purposes of this Clause 19.

#### 19.5 **Guarantor intent**

Without prejudice to the generality of Clause 19.4 (*Waiver of defences*), each Guarantor expressly confirms that it intends that this guarantee shall extend from time to time to any (however fundamental) variation, increase, extension or addition of or to any of the Finance Documents and/or any facility or amount made available under any of the Finance Documents for the purposes of or in connection with any of the following: acquisitions of any nature; increasing working capital; enabling investor distributions to be made; carrying

out restructurings; refinancing existing facilities; refinancing any other indebtedness; making facilities available to new borrowers; any other variation or extension of the purposes for which any such facility or amount might be made available from time to time; and any fees, costs and/or expenses associated with any of the foregoing.

**19.6 Immediate recourse**

Each Guarantor waives any right it may have of first requiring any Finance Party (or any trustee or agent on its behalf) to proceed against or enforce any other rights or security or claim payment from any person before claiming from that Guarantor under this Clause 19. This waiver applies irrespective of any law or any provision of a Finance Document to the contrary.

**19.7 Appropriations**

Until all amounts which may be or become payable by the Obligors under or in connection with the Finance Documents have been irrevocably paid in full, each Finance Party (or any trustee or agent on its behalf) may:

- (a) refrain from applying or enforcing any other moneys, security or rights held or received by that Finance Party (or any trustee or agent on its behalf) in respect of those amounts, or apply and enforce the same in such manner and order as it sees fit (whether against those amounts or otherwise) and no Guarantor shall be entitled to the benefit of the same; and
- (b) hold in an interest-bearing suspense account any moneys received from any Guarantor or on account of any Guarantor's liability under this Clause 19.

**19.8 Deferral of Guarantors' rights**

Until all amounts which may be or become payable by the Obligors under or in connection with the Finance Documents have been irrevocably paid in full and unless the Agent otherwise directs, no Guarantor will exercise any rights which it may have by reason of performance by it of its obligations under the Finance Documents or by reason of any amount being payable, or liability arising, under this Clause 19:

- (a) to be indemnified by an Obligor;
- (b) to claim any contribution from any other guarantor of any Obligor's obligations under the Finance Documents;
- (c) to take the benefit (in whole or in part and whether by way of subrogation or otherwise) of any rights of the Finance Parties under the Finance Documents or of any other guarantee or security taken pursuant to, or in connection with, the Finance Documents by any Finance Party;
- (d) to bring legal or other proceedings for an order requiring any Obligor to make any payment, or perform any obligation, in respect of which any Guarantor has given a guarantee, undertaking or indemnity under Clause 19.1 (*Guarantee and indemnity*);
- (e) to exercise any right of set-off against any Obligor; and/or
- (f) to claim or prove as a creditor of any Obligor in competition with any Finance Party;

If a Guarantor receives any benefit, payment or distribution in relation to such rights it shall hold that benefit, payment or distribution to the extent necessary to enable all amounts

which may be or become payable to the Finance Parties by the Obligors under or in connection with the Finance Documents to be repaid in full on trust for the Finance Parties and shall promptly pay or transfer the same to the Agent or as the Agent may direct for application in accordance with Clause 31 (*Payment mechanics*).

19.9 **Contribution**

- (a) At any time a payment is made pursuant to this Clause 19 (*Guarantee and Indemnity*) by a US Guarantor, the right of contribution of each US Guarantor against each other US Guarantor shall, subject to the other terms of this Clause 19, be determined as set out in paragraph (b) below with the right of contribution of each US Guarantor to be revised and restated each time a payment (a "**Relevant Payment**") is made in relation to the obligations guaranteed under the Finance Documents provided, however, that no such right of contribution shall exist against any direct or indirect Non-US Subsidiary of such US Guarantor.
- (b) If a Relevant Payment is made resulting in the aggregate payments made by such US Guarantor in respect of its guarantee obligations under the Finance Documents to and including the date of the Relevant Payment exceeding such US Guarantor's Contribution Percentage (as defined below) of the aggregate payments made by all US Guarantors in respect of the obligations under the Finance Documents to and including the date of the Relevant Payment (such excess, the "**Aggregate Excess Amount**"), each such US Guarantor shall have a right of contribution against each other US Guarantor (other than any direct or indirect Non-US Subsidiary of such US Guarantor) who has made payments in respect of the obligations under the Finance Documents to and including the date of the Relevant Payment in an aggregate amount less than such other US Guarantor's Contribution Percentage of the aggregate payments made to and including the date of the Relevant Payment by all US Guarantors in respect of the obligations under the Finance Documents (the aggregate amount of such deficit, the "**Aggregate Deficit Amount**") in an amount equal to:
- (i) a fraction the numerator of which is the Aggregate Excess Amount of such US Guarantor and the denominator of which is the Aggregate Excess Amount of all US Guarantors,
- multiplied by
- (ii) the Aggregate Deficit Amount of such other US Guarantor (other than any direct or indirect Non-US Subsidiary of a US Guarantor).
- (c) A US Guarantor's right of contribution under paragraph (b) above shall arise at the time of each computation, subject to adjustment to the time of each computation, provided that no US Guarantor may take any action to enforce such right until the obligations under the Finance Documents have been irrevocably paid in full in cash (or, in the case of contingent or unmatured obligations with respect to Letters of Credit, cash collateralized in a manner satisfactory to the Agent) and the Commitments hereunder (and thereunder) terminated or cancelled, it being expressly recognised and agreed by all Parties that any US Guarantor's right of contribution arising pursuant to this Clause 19 against any other US Guarantor shall be expressly junior and subordinate to such other US Guarantor's obligations and liabilities in respect of the obligations under the Finance Documents and any other obligations owing under this Clause 19.
- (d) As used in this Clause 19.9:

**"Adjusted Net Worth"** of each US Guarantor (other than any direct or indirect Non-US Subsidiary of a US Guarantor) shall mean the greater of (i) the Net Worth (as defined below) of such US Guarantor and (ii) zero;

**"Contribution Percentage"** of a US Guarantor shall mean the percentage obtained by dividing (i) the Adjusted Net Worth (as defined below) of such US Guarantor by (ii) the aggregate Adjusted Net Worth of all US Guarantors (other than any direct or indirect Non-US Subsidiary of a US Guarantor); and

**"Net Worth"** of each US Guarantor (other than any direct or indirect Non-US Subsidiary of a US Guarantor) shall mean the amount by which the fair saleable value of such US Guarantor's assets on the date of any Relevant Payment exceeds its existing debts and other liabilities (including contingent liabilities, but without giving effect to any obligations under the Finance Documents arising under this Clause 19 on such date.

- (e) Notwithstanding anything to the contrary contained above, any US Guarantor that is released from this Clause 19 shall thereafter have no contribution obligations, or rights, pursuant to this Clause 19, and, at the time of any such release, if the released US Guarantor had an Aggregate Excess Amount or an Aggregate Deficit Amount, it shall be deemed reduced to US\$0, and the contribution rights and obligations of the remaining US Guarantors shall be recalculated on the respective date of release (as otherwise provided above) based on the payments made hereunder by the remaining US Guarantors. All Parties recognise and agree that, except for any right of contribution arising pursuant to this Clause 19, each US Guarantor who makes any payment in respect of the obligations under the Finance Documents shall have no right of contribution or subrogation against any other US Guarantor in respect of such payment until all of the obligations under the Finance Documents have been irrevocably paid in full, in cash. Each of the US Guarantors recognises and acknowledges that the rights to contribution arising hereunder shall constitute an asset in favour of the party entitled to such contribution. In this connection, each US Guarantor has the right to waive its contribution right against any US Guarantor to the extent that giving effect to such waiver such US Guarantor would remain solvent, in the determination of the Majority Lenders. Notwithstanding anything to the contrary in this Clause 19, this Clause 19 will not be construed to limit the claim of any Finance Party under this Clause 19, the only such limitation being set forth in Clause 19.

#### 19.10 **Release of Guarantors' right of contribution**

If any Guarantor (a **"Retiring Guarantor"**) ceases to be a Guarantor in accordance with the terms of the Finance Documents for the purpose of any sale or other disposal of that Retiring Guarantor then on the date such Retiring Guarantor ceases to be a Guarantor:

- (a) that Retiring Guarantor is released by each other Guarantor from any liability (whether past, present or future and whether actual or contingent) to make a contribution to any other Guarantor arising by reason of the performance by any other Guarantor of its obligations under the Finance Documents; and
- (b) each other Guarantor waives any rights it may have by reason of the performance of its obligations under the Finance Documents to take the benefit (in whole or in part and whether by way of subrogation or otherwise) of any rights of the Finance Parties under any Finance Document or of any other security taken pursuant to, or in connection with, any Finance Document where such rights or security are granted by or relate to the assets of the Retiring Guarantor.



19.11 **Additional security**

This guarantee is in addition to and is not in any way prejudiced by any other guarantee or security now or subsequently held by any Finance Party.

19.12 **Guarantee limitations**

This guarantee does not apply to any liability to the extent that it would result in this guarantee constituting unlawful financial assistance within the meaning of sections 678 or 679 of the Companies Act 2006 or any equivalent and applicable provisions under the laws of the Original Jurisdiction of the relevant Guarantor and, with respect to any Additional Guarantor, is subject to any limitations set out in the Accession Deed applicable to such Additional Guarantor.

**SECTION 8**

**REPRESENTATIONS, UNDERTAKINGS AND EVENTS OF DEFAULT**

20. **REPRESENTATIONS**

20.1 **General**

- (a) Each Obligor makes the representations and warranties set out in this Clause 20 to each Finance Party in accordance with Clause 20.34 (*Times when representations made*).
- (b) For ease of reference only, the representations and warranties in Clause 20 marked with an asterisk are the Repeating Representations.

20.2 **\*Status**

- (a) It is a limited liability corporation, duly incorporated and validly existing under the law of its Original Jurisdiction.
- (b) Each of its Subsidiaries is a limited liability corporation, or, in the case of any US Obligor or any such Subsidiary that is incorporated or organised in the United States or any State or territory thereof or the District of Columbia, a corporation or limited liability company, as applicable, duly incorporated and validly existing under the law of its jurisdiction of incorporation and for any US Obligor, (A) in good standing under the law of its jurisdiction of incorporation or organisation, as applicable, and (B) qualified to do business in each state or other jurisdiction where failure to be so qualified could reasonably be expected to have a Material Adverse Effect.
- (c) It and each of its Subsidiaries has the power to own its assets and carry on its business as it is being conducted.

20.3 **\*Binding obligations**

Subject to the Legal Reservations:

- (a) the obligations expressed to be assumed by it in each Finance Document to which it is a party are legal, valid, binding and enforceable obligations; and
- (b) (without limiting the generality of paragraph (a) above), each Transaction Security Document to which it is a party creates the security interests which that Transaction Security Document purports to create and those security interests are valid and effective.

20.4 **\*Non-conflict with other obligations**

The entry into and performance by it of, and the transactions contemplated by, the Finance Documents and the granting of the Transaction Security do not and will not conflict with:

- (a) any law or regulation applicable to it;
- (b) the constitutional documents of any member of the Group; or
- (c) any agreement or instrument binding upon it or any Obligor or any Obligor's assets or constitute a default or termination event (however described) under any such agreement or instrument.

20.5 **\*Power and authority**

- (a) It has the power to enter into, perform and deliver, and has taken all necessary action to authorise its entry into, performance and delivery of, the Finance Documents to which it is or will be a party and the transactions contemplated by those Finance Documents.
- (b) No limit on its powers will be exceeded as a result of the borrowing, grant of security or giving of guarantees or indemnities contemplated by the Finance Documents to which it is a party.

20.6 **\*Validity and admissibility in evidence**

- (a) All Authorisations required or desirable:
  - (i) to enable it lawfully to enter into, exercise its rights and comply with its obligations in the Finance Documents to which it is a party; and
  - (ii) to make the Finance Documents to which it is a party admissible in evidence in its Relevant Jurisdictions, have been obtained or effected and are in full force and effect except any Authorisation referred to in Clause 20.9 (*No filing or stamp taxes*), which Authorisations will be promptly obtained or effected after the Original Effective Date.
- (b) All Authorisations necessary for the conduct of the business, trade and ordinary activities of members of the Group have been obtained or effected and are in full force and effect.

20.7 **\*Governing law and enforcement**

- (a) The law expressed to be the governing law in each Finance Document will be recognised and enforced in the Relevant Jurisdictions of each Obligor executing that Finance Document.
- (b) Any judgment obtained in relation to a Finance Document in the jurisdiction of the governing law of that Finance Document will be recognised and enforced in its Relevant Jurisdictions.

20.8 **Insolvency**

No:

- (a) corporate action, legal proceeding or other procedure or step described in paragraph (a) of Clause 24.7 (*Insolvency proceedings*); or
- (b) creditors' process described in Clause 24.8 (*Creditors' process*),

has been taken or, to the knowledge of the Company, threatened in relation to a member of the Group; and none of the circumstances described in Clause 24.6 (*Insolvency*) applies to any member of the Group.

20.9 **No filing or stamp taxes**

Under the laws of its Relevant Jurisdiction it is not necessary that any Finance Document be filed, recorded or enrolled with any court or other authority in that jurisdiction or that any

stamp, registration, notarial or similar Taxes or fees be paid on or in relation to the Finance Documents or the transactions contemplated by the Finance Documents except:

- (a) any filing, recording or enrolling or any tax or fee payable in relation to the Transaction Security Documents which are referred to in any Legal Opinion and which will be made or paid promptly after the date of the relevant Finance Document; and
- (b) any stamp duty or similar Taxes chargeable in respect of a Transfer Certificate, Assignment Agreement or Increase Confirmation payable by a Finance Party.

**20.10 Deduction of Tax**

It is not required to make any Tax Deduction (as defined in Clause 14.1 (*Definitions*)) from any payment it may make under any Finance Document to a Lender which is:

- (a) a Qualifying Lender:
  - (i) falling within paragraph (a)(i) of the definition of Qualifying Lender; or
  - (ii) except where a Direction has been given under section 931 of the ITA in relation to the payment concerned, falling within paragraph (a)(ii) of the definition of Qualifying Lender ; or
  - (iii) falling within paragraph (b) of the definition of Qualifying Lender or;
- (b) a Treaty Lender and the payment is one specified in a direction given by the Commissioners of Revenue & Customs under Regulation 2 of the Double Taxation Relief (Taxes on Income) (General) Regulations 1970 (SI 1970/488).

**20.11 \*No default**

- (a) No Event of Default and, on the Original Effective Date and the Closing Date, no Default is continuing or is reasonably likely to result from the making of any Utilisation or the entry into, the performance of, or any transaction contemplated by, any Transaction Document.
- (b) No other event or circumstance is outstanding which constitutes (or, with the expiry of a grace period, the giving of notice, the making of any determination or any combination of any of the foregoing would constitute) a default or termination event (however described) under any other agreement or instrument which is binding on it or any of its Subsidiaries or to which its (or any of its Subsidiaries') assets are subject which has or is reasonably likely to have a Material Adverse Effect.

**20.12 No misleading information**

Save as disclosed to the Agent in writing prior to the Original Effective Date:

- (a) any factual information disclosed or contained in the Base Case Model was true and accurate in all material respects as at the date of the relevant report or document containing the information or (as the case may be) as at the date the information is expressed to be given;
- (b) the Base Case Model has been prepared on a non-GAAP cash basis and is based on reasonable assumptions and have been approved by the board of directors of the Company;

- (c) any financial projection or forecast contained in the Base Case Model has been prepared on a non-GAAP cash basis and on the basis of reasonable assumptions and was fair (as at the date of the relevant report or document containing the projection or forecast) and arrived at after careful consideration;
- (d) the expressions of opinion or intention provided by or on behalf of an Obligor for the purposes of the Base Case Model were made after careful consideration and (as at the date of the relevant report or document containing the expression of opinion or intention) were fair and based on reasonable grounds; and
- (e) no event or circumstance has occurred or arisen and no information has been omitted from the Base Case Model and no information has been given or withheld that results in the information, opinions, intentions, forecasts or projections contained in the Base Case Model being untrue or misleading in any material respect.

20.13 **Financial Statements**

- (a) Its Original Financial Statements were prepared in accordance with the Accounting Principles consistently applied unless expressly disclosed to the Agent in writing to the contrary.
- (b) Its Original Financial Statements fairly present its financial condition and its results of operations for the relevant period unless expressly disclosed to the Agent in writing to the contrary prior to the Original Effective Date.
- (c) There has been no material adverse change in its assets, business or financial condition (or the assets, business or consolidated financial condition of the Group) in the case of the Company since the date of the Original Financial Statements.
- (d) Its most recent financial statements delivered pursuant to Clause 21.1 (*Financial statements*):
  - (i) have been prepared in accordance with the Accounting Principles as applied to the Original Financial Statements; and
  - (ii) fairly present its consolidated financial condition as at the end of, and consolidated results of operations for, the period to which they relate.
- (e) The budgets and forecasts supplied under this Agreement were arrived at after careful consideration and have been prepared in good faith on the basis of recent historical information and on the basis of assumptions which were reasonable as at the date they were prepared.
- (f) Since the date of the most recent financial statements delivered pursuant to Clause 21.1 (*Financial statements*) there has been no material adverse change in the assets, business or financial condition of the Group.

20.14 **No proceedings**

- (a) No litigation, arbitration or administrative proceedings or investigations of, or before, any court, arbitral body or agency which, if adversely determined, are reasonably likely to result in a judgment or liability of more than \$5,000,000, that could have a Material Adverse Effect or that question the validity of the Finance Documents, have (to the best of its knowledge and belief (having made due and careful enquiry)) been started or threatened against it or any of its Subsidiaries.

- (b) No judgment or order of a court, arbitral body or agency which is reasonably likely to result in a judgment or liability of more than \$5,000,000, that could have a Material Adverse Effect or that question the validity of the Finance Documents, has (to the best of its knowledge and belief (having made due and careful enquiry)) been made against it or any of its Subsidiaries.

20.15 **No breach of laws**

- (a) It has not (and none of its Subsidiaries has) breached any law or regulation which breach has or is reasonably likely to have a Material Adverse Effect.
- (b) No labour disputes are current or, to the best of its knowledge and belief (having made due and careful enquiry), threatened against any member of the Group which have or are reasonably likely to have a Material Adverse Effect.

20.16 **Environmental laws**

- (a) Each member of the Group is in compliance with Clause 23.3 (*Environmental compliance*) and to the best of its knowledge and belief (having made due and careful enquiry) no circumstances have occurred which would prevent such compliance in a manner or to an extent which has or is reasonably likely to have a Material Adverse Effect.
- (b) No Environmental Claim has been commenced or (to the best of its knowledge and belief (having made due and careful enquiry)) is threatened against any member of the Group where that claim has or is reasonably likely, if determined against that member of the Group, to have a Material Adverse Effect.

20.17 **Taxation**

- (a) It is not (and none of its Subsidiaries is) overdue in the filing of any Tax returns and it is not (and none of its Subsidiaries is) overdue in the payment of any material amount in respect of Tax unless:
  - (i) such payment is being contested in good faith;
  - (ii) adequate reserves are being maintained for those Taxes and the costs required to contest them; and
  - (iii) such payment can be lawfully withheld and failure to pay those Taxes does not have or would not reasonably be expected to have a Material Adverse Effect.
- (b) No claims or investigations are being or are reasonably likely to be made or conducted against it (or any of its Subsidiaries) with respect to Taxes such that a liability of, or claim against, any member of the Group which would have a Material Adverse Effect is reasonably likely to arise.
- (c) It is resident for Tax purposes only in its Original Jurisdiction.

20.18 **Anti-corruption law**

Each member of the Group has conducted its businesses in compliance with applicable anti-corruption laws and has instituted and maintained policies and procedures designed to promote and achieve compliance with such laws.

20.19 **Security and Financial Indebtedness**

- (a) No Security or Quasi-Security exists over all or any of the present or future assets of any member of the Group other than as permitted by this Agreement.
- (b) No member of the Group has any Financial Indebtedness outstanding other than as permitted by this Agreement.

20.20 **\*Ranking**

The Transaction Security has or will have first ranking priority and it is not subject to any prior ranking or pari passu ranking Security.

20.21 **\*Good title to assets**

It and each of its Subsidiaries has a good, valid and marketable title to, or valid leases or licences of, and all appropriate Authorisations to use, the assets necessary to carry on its business as presently conducted.

20.22 **\*Legal and beneficial ownership**

It and each of its Subsidiaries is the sole legal and beneficial owner of the respective assets over which it purports to grant Security to the Security Agent.

20.23 **Shares**

The shares of any member of the Group which are subject to the Transaction Security are fully paid and not subject to any option to purchase or similar rights. The constitutional documents of companies whose shares are subject to the Transaction Security do not and could not restrict or inhibit any transfer of those shares on creation or enforcement of the Transaction Security. There are no agreements in force which provide for the issue or allotment of, or grant any person the right to call for the issue or allotment of, any share or loan capital of any member of the Group (including any option or right of pre-emption or conversion).

20.24 **Intellectual Property**

It and each of its Subsidiaries:

- (a) is the sole legal and beneficial owner of or has licensed to it on arm's length commercial terms all the Intellectual Property which is material in the context of its business and which is required by it in order to carry on its business as it is being conducted and as contemplated in the Base Case Model;
- (b) does not (nor does any of its Subsidiaries), in carrying on its businesses, infringe any Intellectual Property of any third party in any respect which has or is reasonably likely to have a Material Adverse Effect; and
- (c) has taken all formal or procedural actions (including payment of fees) required to maintain any material Intellectual Property owned by it.

20.25 **Group Structure Chart**

The Group Structure Chart is true, complete and accurate in all material respects.

20.26 **Accounting reference date**

The accounting reference date for each member of the Group is 31 December.

20.27 **Centre of main interests and establishments**

For the purposes of Regulation (EU) 2015/848 of 20 May 2015 on insolvency proceedings (recast) (the "**Regulation**"), its centre of main interest (as that term is used in Article 3(1) of the Regulation) is situated in its Original Jurisdiction and it has no "establishment" (as that term is used in Article 2(10) of the Regulation) in any other jurisdiction.

20.28 **Insurance**

There has been no non-disclosure, misrepresentation or breach of any term of any material insurance policy which would entitle any insurer to repudiate, rescind or cancel it or to treat it as avoided in whole or in part or otherwise decline any valid claim under it by or on behalf of any member of the Group.

20.29 **Pensions**

Neither it nor any of its Subsidiaries is or has at any time been:

- (a) an employer (for the purposes of Sections 38 to 51 of the Pensions Act 2004) of an occupational pension scheme which is not a money purchase scheme (both terms as defined in the Pensions Schemes Act 1993); and
- (b) "connected" with or an "associate" of (as those terms are used in Sections 38 and 43 of the Pensions Act 2004) such an employer.

20.30 **\*Sanctions**

Neither it nor any of its Subsidiaries, nor, to the knowledge of an Obligor, any directors, officers, employees, agents or affiliates of it or any of its Subsidiaries, is a person that, or is owned or controlled by a person that:

- (a) listed, or is owned or controlled, directly or indirectly, by any person which is listed, on a Designated Parties List;
- (b) located, organised or resident in a country which is the subject of sanctions by any Authority;
- (c) a governmental agency, authority, or body or state-owned enterprise (or owned or controlled by any of the foregoing) of any country which is the subject of sanctions by any Authority; or
- (d) a person or entity who is otherwise the target of sanctions by any Authority such that any Finance Party cannot deal or otherwise engage in business transactions with such person or entity.

20.31 **ERISA Plans**

- (a) Except as would not be reasonably expected to have a Material Adverse Effect, each Plan complies in all respects with the applicable requirements of ERISA or the Code and all other applicable laws and regulations.
- (b) Each Plan which is intended to be qualified under Section 401(a) of the Code has been determined by the IRS to be so qualified or is in the process of being submitted



to the IRS for approval or will be so submitted during the applicable remedial amendment period, and, nothing has occurred since the date of such determination that would adversely affect such determination (or in the case of a Plan with no determination, nothing has occurred that would materially adversely affect such qualification).

- (c) No ERISA Event has occurred or is reasonably likely to occur that has or would reasonably be expected to have a Material Adverse Effect.
- (d) There is no litigation, arbitration, administrative proceeding or claim pending or to the knowledge of the Company threatened against or with respect to any Plan (other than routine claims for benefits) which could reasonably be expected to have a Material Adverse Effect.
- (e) Except as would not be reasonably expected to have a Material Adverse Effect, no Obligor has any existing liability to the PBGC or any Plan and Multiemployer Plan (other than to make PBGC premium payments and Plan and Multiemployer Plan funding and contribution payments as they fall due).
- (f) Each Obligor has made all contributions to each Plan and Multiemployer Plan as required by law within the applicable time limits prescribed by law, the terms of that Plan and any contract or agreement requiring contributions to the Plan except as could not reasonably be expected to have a Material Adverse Effect.
- (g) No Obligor has ceased operations at a facility so as to become subject to the provisions of Section 4062(e) of ERISA, withdrawn as a substantial employer so as to become subject to the provisions of Section 4063 of ERISA, or ceased making contributions to any Plan subject to Section 4064(a) of ERISA to which it made contributions.

20.32 **Margin Stock**

No proceeds of any Utilisation will be used to purchase or carry any "margin stock" as defined in US Regulation U of the Board of Governors of the Federal Reserve System as in effect from time to time ("**Margin Stock**") or to extend credit for the purpose of purchasing or carrying any Margin Stock. Neither the making of any Utilisation nor the use of the proceeds of it will violate or be inconsistent with, or cause any Lender to violate, the provisions of US Regulation T, U or X of the Board of Governors of the Federal Reserve System in effect from time to time or any successor to all or a portion thereof. No member of the Group is engaged principally, or as one of its important activities, in the business whether immediate, incidental or ultimate, of buying or carrying Margin Stock or of extending credit to others for the purpose, whether immediate, incidental or ultimate, of buying or carrying Margin Stock.

20.33 **Investment Company Act**

No US Obligor is or is required to be registered as an "investment company" within the meaning of the US Investment Company Act of 1940, as amended, or is otherwise subject to regulation under that Act.

20.34 **Times when representations made**

- (a) All the representations and warranties in this Clause 20 are made by each Original Obligor on the Original Effective Date and the Closing Date.

- (b) The Repeating Representations are deemed to be made by each Obligor:
  - (i) on the date of each Utilisation Request;
  - (ii) on each Utilisation Date; and
  - (iii) on the first day of each Interest Period.
- (c) All the representations and warranties in this Clause 20 except Clause 20.12 (*No misleading information*) and Clause 20.25 (*Group Structure Chart*) and are deemed to be made by each Additional Obligor on the day on which it becomes (or it is proposed that it becomes) an Additional Obligor.
- (d) Each representation or warranty deemed to be made after the Original Effective Date shall be deemed to be made by reference to the facts and circumstances existing at the date the representation or warranty is deemed to be made.

## 21. INFORMATION UNDERTAKINGS

The undertakings in this Clause 21 remain in force from the Original Effective Date for so long as any amount is outstanding under the Finance Documents or any Commitment is in force.

In this Clause 21:

**"Annual Financial Statements"** means the financial statements for a Financial Year delivered pursuant to paragraph (a) of Clause 21.1 (*Financial statements*).

**"Quarterly Financial Statements"** means the financial statements delivered pursuant to paragraph (b) of Clause 21.1 (*Financial statements*).

### 21.1 Financial statements

The Company shall supply to the Agent in sufficient copies for all the Lenders:

- (a) as soon as they are available, but in any event within 90 days after the end of each of its Financial Years:
  - (i) its audited consolidated financial statements for that Financial Year;
  - (ii) the audited financial statements (consolidated if appropriate) of each Obligor for that Financial Year; and
  - (iii) the audited financial statements of any other member of the Group for that Financial Year if requested by the Agent; and
- (b) as soon as they are available, but in any event within 45 days after the end of each Financial Quarter of each of its Financial Years its consolidated financial statements for that Financial Quarter.

### 21.2 Provision and contents of Compliance Certificate

- (a) The Company shall supply a Compliance Certificate to the Agent with each set of its Annual Financial Statements, each set of its Quarterly Financial Statements and within 30 days after the end of each month.

- (b) The Compliance Certificate shall include evidence as to (i) compliance with Clause 22 (*Financial covenants*) and (ii) the aggregate amount of cash and cash equivalents held by the Group and the aggregate amount of Group Unrestricted Cash as of the date of such Compliance Certificate.
- (c) Each Compliance Certificate shall be signed by any two directors or officers (including the general counsel), one of whom must be the Chief Financial Officer of the Group.

21.3 **Requirements as to financial statements**

- (a) The Company shall procure that
  - (i) each set of Annual Financial Statements and Quarterly Financial Statements includes a balance sheet, profit and loss account and cash flow statement; and
  - (ii) each set of its Annual Financial Statements shall be audited by the Company's Auditors.
- (b) Each set of financial statements delivered pursuant to Clause 21.1 (*Financial statements*):
  - (i) shall be certified by the Chief Financial Officer as fairly presenting, its financial condition and operations as at the date as at which those financial statements were drawn up;
  - (ii) in the case of consolidated financial statements of the Group, shall be accompanied by a statement by the Chief Financial Officer comparing actual performance for the period to which the financial statements relate to:
    - (1) the projected performance for that period set out in the Budget; and
    - (2) the actual performance for the corresponding period in the preceding Financial Year of the Group; and
    - (3) shall be prepared using the Accounting Principles consistently applied.

21.4 **Budget**

- (a) The Company shall supply to the Agent in sufficient copies for all the Lenders, as soon as the same become available but in any event within 60 days after the start of each of its Financial Years, an annual Budget for that Financial Year as approved by the board of directors of the Company.
- (b) If the Company updates or changes the Budget, it shall as soon as reasonably practicable deliver to the Agent, in sufficient copies for each of the Lenders, such updated or changed Budget together with a written explanation of the main changes in that Budget.

21.5 **Year-end**

The Company shall procure that the end of each annual accounting period of each member of the Group falls on the same date.

21.6 **Information: miscellaneous**

The Company shall supply to the Agent (in sufficient copies for all the Lenders, if the Agent so requests):

- (a) at the same time as they are dispatched, copies of all documents dispatched by the Company to its shareholders generally (or any class of them) or dispatched by the Company or any Obligors to its creditors generally (or any class of them);
- (b) upon becoming aware of them, the details of any litigation, arbitration or administrative proceedings which are current, threatened or pending against any member of the Group, and which, if adversely determined are reasonably likely to have a Material Adverse Effect;
- (c) upon becoming aware of the relevant claim the details of any claim which is current, threatened or pending against the provider of a Report in respect of a Permitted Acquisition and details of any disposal or insurance claim which will require a prepayment under Clause 8.2 (*Disposal, Insurance and Acquisition Proceeds*);
- (d) promptly, such information as the Security Agent may reasonably require about the Charged Property and compliance of the Obligors with the terms of any Transaction Security Documents; and
- (e) promptly on request, such further information regarding the financial condition, assets and operations of the Group and/or any member of the Group as any Finance Party through the Agent may reasonably request.

21.7 **Notification of default**

- (a) Each Obligor shall notify the Agent of any Default (and the steps, if any, being taken to remedy it) promptly upon becoming aware of its occurrence (unless that Obligor is aware that a notification has already been provided by another Obligor).
- (b) Promptly upon a request by the Agent, the Company shall supply to the Agent a certificate signed by two of its senior officers on its behalf certifying that no Default is continuing (or if a Default is continuing, specifying the Default and the steps, if any, being taken to remedy it).

21.8 **"Know your customer" checks**

- (a) If:
  - (i) the introduction of or any change in (or in the interpretation, administration or application of) any law or regulation made after the Original Effective Date;
  - (ii) any change in the status of an Obligor (or of a Holding Company of an Obligor) or the composition of the shareholders of an Obligor (or of a Holding Company of an Obligor) after the Original Effective Date; or
  - (iii) a proposed assignment or transfer by a Lender of any of its rights and/or obligations under this Agreement to a party that is not a Lender prior to such assignment or transfer,

obliges the Agent or any Lender (or, in the case of paragraph (iii) above, any prospective new Lender) to comply with "know your customer" or similar

identification procedures in circumstances where the necessary information is not already available to it, each Obligor shall promptly upon the request of the Agent or any Lender supply, or procure the supply of, such documentation and other evidence as is reasonably requested by the Agent (for itself or on behalf of any Lender) or any Lender (for itself or, in the case of the event described in paragraph (iii) above, on behalf of any prospective new Lender) in order for the Agent, such Lender or, in the case of the event described in paragraph (iii) above, any prospective new Lender to carry out and be satisfied it has complied with all necessary "know your customer" or other similar checks under all applicable laws and regulations pursuant to the transactions contemplated in the Finance Documents.

- (b) Each Lender shall promptly upon the request of the Agent supply, or procure the supply of, such documentation and other evidence as is reasonably requested by the Agent (for itself) in order for the Agent to carry out and be satisfied it has complied with all necessary "know your customer" or other similar checks under all applicable laws and regulations pursuant to the transactions contemplated in the Finance Documents.
- (c) The Company shall, by not less than 10 Business Days' prior written notice to the Agent, notify the Agent (which shall promptly notify the Lenders) of its intention to request that one of its Subsidiaries becomes an Additional Obligor pursuant to Clause 26 (*Changes to the Obligors*).
- (d) Following the giving of any notice pursuant to paragraph (c) above, if the accession of such Additional Obligor obliges the Agent or any Lender to comply with "know your customer" or similar identification procedures in circumstances where the necessary information is not already available to it, the Company shall promptly upon the request of the Agent or any Lender supply, or procure the supply of, such documentation and other evidence as is reasonably requested by the Agent (for itself or on behalf of any Lender) or any Lender (for itself or on behalf of any prospective new Lender) in order for the Agent, or such Lender or any prospective new Lender to carry out and be satisfied it has complied with all necessary "know your customer" or other similar checks under all applicable laws and regulations pursuant to the accession of such Subsidiary to this Agreement as an Additional Obligor.
- (e) Without limiting the generality of the foregoing, each Lender and the Agent (for itself and not on behalf of any Lender) hereby notifies each Obligor that pursuant to the requirements of the USA PATRIOT Act (Title III of Pub Law 107 56 (signed into law 26 October 2001)) (as amended from time to time, the "**Patriot Act**"), it is required to obtain, verify and record information that identifies each Obligor, which information includes the name of each Obligor and other information that will allow such Lender to identify each Obligor in accordance with the PATRIOT Act, and each Obligor hereby agrees to provide such information from time to time to such Lender and the Agent, as applicable.

22. **FINANCIAL COVENANTS**

22.1 **Financial condition**

The Company shall ensure that:

- (a) following the first Utilisation of Facility B, the Group Unrestricted Cash held by the Group shall not at any time be less than \$20,000,000; and

- (b) following the first Utilisation of Facility C, the Group Unrestricted Cash held by the Group shall not at any time be less than \$35,000,000.

## 22.2 **Financial testing**

- (a) Subject to paragraph (b) below, the financial covenants set out in Clause 22.1 (*Financial condition*) shall be calculated in accordance with the Accounting Principles and tested by reference to each of the financial statements delivered pursuant to paragraphs (a) and (b) of Clause 21.1 (*Financial statements*) and/or each Compliance Certificate delivered pursuant to Clause 21.2 (*Provision and contents of Compliance Certificate*).
- (b) When calculating the financial covenants in this Clause the effect of all transactions between members of the Group shall be eliminated to the extent not already netted out on consolidation.
- (c) No item shall be deducted or credited more than once in any calculation.
- (d) Where an amount in any financial statement or Compliance Certificate is not denominated in the Base Currency, it shall be converted into the Base Currency at the rate specified in the financial statements so long as such rate has been set in accordance with the Accounting Principles.
- (e) The financial covenants in paragraphs (a) and (b) of Clause 22.1 (*Financial condition*) shall apply on a continuing basis.

## 23. **GENERAL UNDERTAKINGS**

The undertakings in this Clause 23 remain in force from the Original Effective Date for so long as any amount is outstanding under the Finance Documents or any Commitment is in force.

### **Authorisations and compliance with laws**

#### 23.1 **Authorisations**

Each Obligor shall promptly:

- (a) obtain, comply with and do all that is necessary to maintain in full force and effect; and
- (b) supply certified copies to the Agent of,

any Authorisation required under any law or regulation of a Relevant Jurisdiction to:

- (i) enable it to perform its obligations under the Finance Documents;
- (ii) ensure the legality, validity, enforceability or admissibility in evidence of any Finance Document; and
- (iii) carry on its business where failure to do so has or is reasonably likely to have a Material Adverse Effect.

23.2 **Compliance with laws**

Each Obligor shall (and the Company shall ensure that each member of the Group will) comply in all respects with all laws to which it may be subject, if failure so to comply has or is reasonably likely to have a Material Adverse Effect.

23.3 **Environmental compliance**

Each Obligor shall (and the Company shall ensure that each member of the Group will):

- (a) comply with all Environmental Law;
  - (b) obtain, maintain and ensure compliance with all requisite Environmental Permits;
  - (c) implement procedures to monitor compliance with and to prevent liability under any Environmental Law,
- where failure to do so has or is reasonably likely to have a Material Adverse Effect.

23.4 **Environmental Claims**

Each Obligor shall through the Company, promptly upon becoming aware of the same, inform the Agent in writing of:

- (a) any Environmental Claim against any member of the Group which is current, pending or threatened; and
- (b) any facts or circumstances which are reasonably likely to result in any Environmental Claim being commenced or threatened against any member of the Group,

where the claim, if determined against that member of the Group, has or is reasonably likely to have a Material Adverse Effect.

23.5 **Anti-corruption law**

- (a) No Obligor shall (and the Company shall ensure that no other member of the Group will) directly or indirectly use the proceeds of the Facilities for any purpose which would breach the Bribery Act 2010, the United States Foreign Corrupt Practices Act of 1977 or other similar legislation in other jurisdictions.
- (b) Each Obligor shall (and the Company shall ensure that each other member of the Group will):
  - (i) conduct its businesses in compliance with applicable anti-corruption laws; and
  - (ii) maintain policies and procedures designed to promote and achieve compliance with such laws.

23.6 **Sanctions**

- (a) Each Obligor shall (and the Company shall ensure that each member of the Group will) ensure that none of the proceeds of any Utilisation will, directly or indirectly, be used or paid for the purposes of any transaction or business activity related to either:

- (i) any person which is listed on a Designated Parties List, or is owned or controlled, directly or indirectly, by any person listed on a Designated Parties List;
  - (ii) any person that the Obligor knows or has reasonable cause to suspect is acting on behalf of any of the above;
  - (iii) a governmental agency, authority, or body or state-owned enterprise (or any entity owned or controlled by any of the foregoing) of any country which is the subject of sanctions by any Authority, even if located outside such country;
  - (iv) a person or entity who is otherwise the target of sanctions by any Authority such that any Finance Party cannot deal or otherwise engage in business transactions with such person or entity; or
  - (v) any country which is the subject of sanctions by any Authority.
- (b) Neither it nor any of its Subsidiaries, nor, to the knowledge of an Obligor, any directors, officers, employees, agents or affiliates of it or any of its Subsidiaries shall engage in, directly or indirectly, any business activity or transaction related to either:
- (i) any person which is listed on a Designated Parties List, or is owned or controlled, directly or indirectly, by any person listed on a Designated Parties List; or
  - (ii) any person that the Obligor or the applicable Affiliate knows or has reasonable cause to suspect is acting on behalf of any of the above; or
  - (iii) any country which is the subject of sanctions by any Authority.
- (c) No Obligor shall engage in any conduct which might reasonably be expected to cause it to become a subject of sanctions by any Authority.
- (d) The undertakings contained in paragraphs (a), (b) and (c) above shall not apply to the extent that any such undertaking would breach any provision of Council Regulation EC No. 2271/96, as amended from time to time (known as the "Blocking Regulation"), or any applicable implementing legislation.

### 23.7 Taxation

- (a) Each Obligor shall (and the Company shall ensure that each member of the Group will) pay and discharge all Taxes imposed upon it or its assets within the time period allowed without incurring penalties unless and only to the extent that:
- (i) such payment is being contested in good faith;
  - (ii) adequate reserves are being maintained for those Taxes and the costs required to contest them have been disclosed in its latest financial statements delivered to the Agent under Clause 21.1 (*Financial statements*); and
  - (iii) such payment can be lawfully withheld and failure to pay those Taxes does not have or is not reasonably likely to have a Material Adverse Effect.
- (b) No member of the Group may change its residence for Tax purposes.



**Restrictions on business focus**

**23.8 Merger**

No Obligor shall (and the Company shall ensure that no other member of the Group will) enter into (or agree to enter into) any amalgamation, demerger, merger, consolidation or corporate reconstruction other than any solvent liquidation or reorganisation permitted by paragraph (b) of the definition of Permitted Transaction or any sale, lease, transfer or other disposal permitted pursuant to Clause 23.18 (*Disposals*).

**23.9 Change of business**

The Company shall procure that no substantial change is made to the general nature of the business of the Company, the Obligors or the Group taken as a whole from that carried on by the Group at the Original Effective Date.

**23.10 [Reserved]**

**23.11 Acquisitions**

(a) Except as permitted under paragraph (b) below, no Obligor shall (and the Company shall ensure that no other member of the Group will):

- (i) acquire a company or any shares or securities or a business or undertaking (or, in each case, any interest in any of them); or
- (ii) incorporate a company; or
- (iii) acquire (including through licensing) any Product, Product line or Intellectual Property of or from any other person.

(b) Paragraph (a) above does not apply to an acquisition of a company, of shares, securities or a business or undertaking (or, in each case, any interest in any of them), the incorporation of a company or the acquisition (including through licensing) of any Product, Product line or Intellectual Property of or from any other person which is:

- (i) a Permitted Acquisition;
- (ii) a Permitted Joint Venture; or
- (iii) contemplated by paragraph (b) of the definition of Permitted Transaction.

**23.12 Joint Ventures**

(a) Except as permitted under paragraph (b) below, no Obligor shall (and the Company shall ensure that no other member of the Group will):

- (i) enter into, invest in or acquire (or agree to acquire) any shares, stocks, securities or other interest in any Joint Venture; or
- (ii) transfer any assets or lend to or guarantee or give an indemnity for or give Security for the obligations of a Joint Venture or maintain the solvency of or provide working capital to any Joint Venture (or agree to do any of the foregoing).

- (b) Paragraph (a) above does not apply to any acquisition of (or agreement to acquire) any interest in a Joint Venture or transfer of assets (or agreement to transfer assets) to a Joint Venture or loan made to or guarantee given in respect of the obligations of a Joint Venture if such transaction is a Permitted Acquisition, a Permitted Disposal, a Permitted Loan or a Permitted Joint Venture.

### 23.13 **Holding Companies**

The Company shall not trade, carry on any business, own any assets or incur any liabilities except for:

- (a) the provision of administrative services (excluding treasury services) to other members of the Group of a type customarily provided by a holding company to its Subsidiaries;
- (b) ownership of shares in its Subsidiaries, intra-Group debit balances, intra-Group credit balances and other credit balances in bank accounts, cash and Cash Equivalent Investments but only if those shares, credit balances, cash and Cash Equivalent Investments are subject to the Transaction Security;
- (c) any liabilities under the Transaction Documents to which it is a party and professional fees and administration costs in the ordinary course of business as a holding company; or
- (d) any issue of shares pursuant to a Permitted Share Issue,

and this Clause shall prevail if but for this Clause a transaction would otherwise be a Permitted Acquisition, a Permitted Disposal, Permitted Financial Indebtedness, a Permitted Joint Venture, a Permitted Guarantee, a Permitted Loan, Permitted Security or a Permitted Transaction.

### 23.14 **Dormant Subsidiaries**

- (a) No Obligor shall (and the Company shall ensure no other member of the Group will) cause or permit any member of the Group which is a Dormant Subsidiary to cease to satisfy the criteria for a Dormant Subsidiary unless such Dormant Subsidiary becomes an Additional Guarantor in accordance with Clause 26.2 (*Additional Guarantors*).
- (b) The Company shall ensure that, at all times, the Dormant Subsidiaries in aggregate do not:
  - (i) own, legally or beneficially, gross assets or net assets (including, in each case, indebtedness owed to them) which in aggregate represent more than 15% of the gross assets or net assets (including indebtedness owed to it) of the Group on a consolidated basis;
  - (ii) have liabilities which in aggregate represent more than 15% of the liabilities of the Group on a consolidated basis.

### ***Restrictions on dealing with assets and Security***

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23.15 **Preservation of assets**

Each Obligor shall (and the Company shall ensure that each other member of the Group will) maintain in good working order and condition (ordinary wear and tear excepted) all of its assets necessary for the conduct of its business.

23.16 **Pari passu ranking**

Each Obligor shall ensure that at all times any unsecured and unsubordinated claims of a Finance Party against it under the Finance Documents rank at least *pari passu* with the claims of all its other unsecured and unsubordinated creditors except those creditors whose claims are mandatorily preferred by laws of general application to companies.

23.17 **Negative pledge**

Except as permitted under paragraph (d) below:

- (a) No Obligor shall (and the Company shall ensure that no other member of the Group will) create or permit to subsist any Security over any of its assets.
- (b) No Obligor shall (and the Company shall ensure that no other member of the Group will) sell, transfer or otherwise dispose of any of its receivables on recourse terms.
- (c) No Obligor shall (and the Company shall ensure that no other member of the Group will):
  - (i) sell, transfer or otherwise dispose of any of its assets on terms whereby they are or may be leased to or re-acquired by any other member of the Group;
  - (ii) enter into any arrangement under which money or the benefit of a bank or other account may be applied, set-off or made subject to a combination of accounts; or
  - (iii) enter into any other preferential arrangement having a similar effect,in circumstances where the arrangement or transaction is entered into primarily as a method of raising Financial Indebtedness or of financing the acquisition of an asset. An arrangement or transaction referred to in paragraph (b) or in this paragraph (c) is termed "**Quasi-Security**".
- (d) No Obligor shall (and the Company shall ensure that no other member of the Group will) enter into any agreement, document, instrument or other arrangement with any person which directly or indirectly prohibits or has the effect of prohibiting any Obligor from assigning, mortgaging, pledging, or granting a security interest in or upon any Lead Product, any Intellectual Property related thereto, or any agreement (including any in-license), document, instrument or other arrangement relating thereto to, or in favour of, the Finance Parties; provided that this restriction shall apply only to Products (and related Intellectual Property, agreements, documents, instruments and other arrangements) which are Lead Products (or in the case of an acquisition, will become Lead Products immediately when acquired) at the time such agreement, document, instrument or other arrangement would otherwise be entered into.
- (e) Paragraphs (a) to (d) above do not apply to any Security or (as the case may be) Quasi-Security, which is:

- (i) Permitted Security; or
- (ii) given under the Finance Documents.

23.18 **Disposals**

- (a) Except as permitted under paragraph (b) below, no Obligor shall (and the Company shall ensure that no other member of the Group will) enter into a single transaction or a series of transactions (whether related or not) and whether voluntary or involuntary to sell, lease, transfer, licence, surrender, set-off or otherwise dispose of any asset, including tax assets.
- (b) Paragraph (a) above does not apply to any sale, lease, transfer or other disposal which is:
  - (i) a Permitted Disposal; or
  - (ii) a Permitted Transaction.

***Restrictions on movement of cash - cash out***

23.19 **Loans or credit**

- (a) Except as permitted under paragraph (b) below, no Obligor shall (and the Company shall ensure that no other member of the Group will) be a creditor in respect of any Financial Indebtedness.
- (b) Paragraph (a) above does not apply to:
  - (i) a Permitted Loan; or
  - (ii) a Permitted Transaction which is referred to in paragraph (a) of the definition of that term.

23.20 **No guarantees or indemnities**

- (a) Except as permitted under paragraph (b) below, no Obligor shall (and the Company shall ensure that no other member of the Group will) incur or allow to remain outstanding any guarantee, bond or indemnity in respect of any obligation of any person.
- (b) Paragraph (a) does not apply to a guarantee which is:
  - (i) a Permitted Guarantee; or
  - (ii) a Permitted Transaction which is referred to in paragraph (a) of the definition of that term.

23.21 **Dividends and share redemption**

- (a) Except as permitted under paragraph (b) below, the Company shall not (and will ensure that no other member of the Group will):
  - (i) declare, make or pay any dividend, charge, fee or other distribution (or interest on any unpaid dividend, charge, fee or other distribution) (whether in cash or in kind) on or in respect of its share capital (or any class of its share capital);

- (ii) repay or distribute any dividend or share premium reserve; or
  - (iii) redeem, repurchase, defease, retire or repay any of its share capital or resolve to do so.
- (b) Paragraph (a) above does not apply to:
- (i) a Permitted Distribution; or
  - (ii) a Permitted Transaction (other than one referred to in paragraph (c) of the definition of that term).

**Restrictions on movement of cash - cash in**

**23.22 Financial Indebtedness**

- (a) Except as permitted under paragraph (b) below, no Obligor shall (and the Company shall ensure that no other member of the Group will) incur or allow to remain outstanding any Financial Indebtedness.
- (b) Paragraph (a) above does not apply to Financial Indebtedness which is:
  - (i) Permitted Financial Indebtedness; or
  - (ii) contemplated by paragraph (a) of the definition of Permitted Transaction.

**23.23 Share capital**

No Obligor shall (and the Company shall ensure that no other member of the Group will) issue any shares except pursuant to a Permitted Share Issue.

**23.24 People with Significant Control regime**

Each Obligor shall (and the Company shall ensure that each other member of the Group will):

- (a) within the relevant timeframe, comply with any notice it receives pursuant to Part 21A of the Companies Act 2006 from any company incorporated in the United Kingdom whose shares are the subject of the Transaction Security; and
- (b) promptly provide the Security Agent with a copy of that notice.

**Miscellaneous**

**23.25 Insurance**

- (a) Each Obligor shall (and the Company shall ensure that each other member of the Group will) maintain insurances on and in relation to its business and assets against those risks and to the extent as is usual for companies carrying on the same or substantially similar business.
- (b) All insurances must be with reputable independent insurance companies or underwriters.

**23.26 Pensions**

- (a) The Company shall ensure that all pension schemes operated by or maintained for the benefit of members of the Group and/or any of their employees are fully funded

on the statutory funding objective under sections 221 and 222 of the Pensions Act 2004 and that no action or omission is taken by any member of the Group in relation to such a pension scheme which has or is reasonably likely to have a Material Adverse Effect (including, the termination or commencement of winding-up proceedings of any such pension scheme or any member of the Group ceasing to employ any member of such a pension scheme).

- (b) The Company shall ensure that no member of the Group is or has been at any time an employer (for the purposes of Sections 38 to 51 of the Pensions Act 2004) of an occupational pension scheme which is not a money purchase scheme (both terms as defined in the Pension Schemes Act 1993) or "connected" with or an "associate" of (as those terms are used in Sections 38 or 43 of the Pensions Act 2004) such an employer.
- (c) The Company shall deliver to the Agent at such times as those reports are prepared in order to comply with the then current statutory or auditing requirements (as applicable either to the trustees of any relevant schemes or to the Company), actuarial reports in relation to all pension schemes mentioned in paragraph (a) above.
- (d) The Company shall promptly notify the Agent of any material change in the rate of contributions to any pension schemes mentioned in paragraph (a) above paid or recommended to be paid (whether by the scheme actuary or otherwise) or required (by law or otherwise).
- (e) Each Obligor shall immediately notify the Agent of any investigation or proposed investigation of which it is aware by the Pensions Regulator which may lead to the issue of a Financial Support Direction or a Contribution Notice to any member of the Group.
- (f) Each Obligor shall immediately notify the Agent if it receives a Financial Support Direction or a Contribution Notice from the Pensions Regulator.
- (g) Each Obligor shall furnish each of the following:
  - (i) promptly upon a request by the Agent or a Lender, copies of Schedule B (or such other schedule as contains actuarial information) to IRS Form 5500 in respect of each Plan;
  - (ii) within 5 days after receipt by any Obligor, copies of each notice from the PBGC stating its intention to terminate any Plan or to have a trustee appointed to administer any Plan;
  - (iii) within 5 days after receipt by any Obligor from the sponsor of a Multiemployer Plan, copies of each notice concerning (A) the imposition of withdrawal liability (as defined in Part I of Subtitle E of Title IV of ERISA) by any such Multiemployer Plan, (B) the reorganisation or termination, within the meaning of Title IV of ERISA, of any such Multiemployer Plan and (C) the estimated amount of any liability incurred, or that reasonably may be expected to be incurred, by any Obligor or ERISA Affiliate in connection with any event described in (A) or (B) above;
  - (iv) promptly in receipt of any such notice, of the imposition of withdrawal liability or a determination that a Multiemployer Plan is, or is expected to be, in

"endangered" or "critical" status, within the meaning of Section 305 of ERISA; or

- (v) within 20 days after the date that any Obligor files a notice of intent to terminate any Plan, if such termination would require material additional contributions in order to be considered a standard termination within the meaning of Section 4041(b) of ERISA, a copy of each notice; and
  - (vi) within 5 days after receipt by an Obligor, copies of any notice asserting liability under ERISA.
- (h) Each Obligor must be, and remain, in compliance in all respects with all laws and regulations relating to each of its Plans, where failure to do so would or would be reasonably likely to have a Material Adverse Effect.
- (i) Each Obligor must ensure that no event or condition exists at any time in relation to a Plan which is reasonably likely to result in the imposition of a security interest on the assets of any Obligor or which would or would be reasonably likely to have a Material Adverse Effect.

**23.27 Access**

If an Event of Default is continuing, each Obligor shall, and the Company shall ensure that each member of the Group will, permit the Agent and/or the Security Agent free access at all reasonable times and on reasonable notice at the risk and cost of the Obligor to (a) the premises, assets, books, accounts and records of each member of the Group and (b) meet and discuss matters with senior management of the Group.

**23.28 Intellectual Property**

- (a) Each Obligor shall and the Company shall procure that each other member of the Group will:
- (i) preserve and maintain the subsistence and validity of the material Intellectual Property necessary for its business;
  - (ii) use reasonable endeavours (including the institution of legal proceedings) to prevent any infringement in any material respect of the material Intellectual Property;
  - (iii) make registrations and pay all registration fees and taxes necessary to maintain any material Intellectual Property in full force and effect and record its interest in that material Intellectual Property;
  - (iv) not use or permit the material Intellectual Property to be used in a way or take any step or omit to take any step in respect of that material Intellectual Property which may materially and adversely affect the existence or value of that material Intellectual Property or imperil the right of any member of the Group to use such property; and
  - (v) not discontinue the use of the material Intellectual Property,

where failure to do so (in the case of paragraphs (i) and (ii) above) or such use, permission to use, omission or discontinuation (in the case of paragraphs (iv) and (v) above) is reasonably likely to have a Material Adverse Effect.

- (b) Failure to comply with any part of paragraph (a) above shall not be a breach of this Clause 23.28 to the extent that any dealing with Intellectual Property which would otherwise be a breach of paragraph (a) above is contemplated by paragraph (a) of the definition of Permitted Transaction.

**23.29 Financial assistance**

Each Obligor shall (and the Company shall procure each other member of the Group will) comply in all respects with all relevant financial assistance legislation in relevant jurisdictions including in relation to the execution of the Transaction Security Documents and payment of amounts due under this Agreement.

**23.30 Amendments**

No Obligor shall (and the Company shall ensure that no other member of the Group will) amend, vary, novate, supplement, supersede, waive or terminate any of the Transaction Documents or the constitutional documents of a member of the Group over whose shares or other ownership interests Transaction Security has been granted except:

- (a) in accordance with Clause 37 (*Amendments and waivers*); or
- (b) in a way which could not be reasonably expected to materially and adversely affect the interests of the Finance Parties under the Finance Documents.

**23.31 Treasury Transactions**

No Obligor shall (and the Company will procure that no other member of the Group will) enter into any Treasury Transaction, other than any Treasury Transaction entered into for the hedging of actual or projected real exposures arising in the ordinary course of trading activities of a member of the Group and not for speculative purposes.

**23.32 Further assurance**

- (a) Each Obligor shall (and the Company shall procure that each other member of the Group will) promptly do all such acts or execute all such documents (including assignments, transfers, mortgages, charges, notices and instructions) as the Security Agent may reasonably specify and in such form as the Security Agent may reasonably require (in favour of the Security Agent or its nominee(s)) but subject to the Agreed Security Principles in order to:
- (i) perfect or protect the Security created or intended to be created under or evidenced by the Transaction Security Documents (which may include the execution of a mortgage, charge, assignment or other Security over all or any of the assets which are, or are intended to be, the subject of the Transaction Security) or for the exercise of any rights, powers and remedies of the Security Agent or the Finance Parties provided by or pursuant to the Finance Documents or by law;
- (ii) confer on the Security Agent or confer on the Finance Parties, Security over any property and assets of that Obligor located in any jurisdiction which is (to the extent permitted by local law) equivalent or similar to the Security intended to be conferred by or pursuant to the Transaction Security Documents; and/or
- (iii) facilitate the realisation of the assets which are, or are intended to be, the subject of the Transaction Security.



- (b) Each Obligor shall (and the Company shall procure that each other member of the Group will) take all such action as is available to it (including making all filings and registrations) as may be necessary for the purpose of the creation, perfection, protection or maintenance of any Security conferred or intended to be conferred on the Security Agent or the Finance Parties by or pursuant to the Finance Documents.

23.33 **Landlord waivers**

If at any time Group Unrestricted Cash held by the Group is less than the lower of (a) \$50,000,000 and (b) the aggregate amount of all Loans then outstanding, the Company shall upon request of the Agent use commercially reasonable efforts for a period of not more than 90 days to procure that landlord consents (in form and substance satisfactory to Agent (acting reasonably)) are delivered to the Agent in respect of each of the US Obligor's leased locations with a restriction to an agreed level in accordance with reasonable local market practice and to the extent that the costs remain proportionate to the benefit to the Secured Parties.

23.34 **Condition subsequent**

The Company shall procure that, within 30 days of the Original Effective Date (or such later date as may be agreed between the Company and the Agent), deposit account control agreements or securities account control agreements, as applicable, are entered into by the Security Agent and the relevant account banks in relation to the bank accounts and securities accounts (other than, in each case, Excluded Accounts) of Orchard Therapeutics North America and bank accounts and securities accounts of any other Group Member to the extent such bank accounts or securities accounts, as applicable, are located in the United States (other than, in each case, Excluded Accounts).

24. **EVENTS OF DEFAULT**

Each of the events or circumstances set out in this Clause 24 is an Event of Default (save for Clause 24.18 (*Acceleration*)).

24.1 **Non-payment**

An Obligor does not pay on the due date any amount payable pursuant to a Finance Document in the manner in which it is expressed to be payable unless:

- (a) its failure to pay is caused by:
  - (i) administrative or technical error by a bank in the transmission of funds; or
  - (ii) a Disruption Event; and
- (b) payment is made within 4 Business Days of its due date.

24.2 **Financial covenants and other obligations**

Any requirement of Clause 22 (*Financial covenants*) is not satisfied or an Obligor does not comply with the provision of Clause 21.1 (*Financial statements*) and/or Clause 21.2 (*Provision and contents of Compliance Certificate*).

24.3 **Other obligations**

- (a) An Obligor does not comply with any provision of the Finance Documents (other than those referred to in Clause 24.1 (*Non-payment*) and Clause 24.2 (*Financial covenants and other obligations*)).
- (b) No Event of Default under paragraph (a) above will occur if the failure to comply is capable of remedy and is remedied within 10 Business Days after the earlier of (i) the Agent giving notice to the Company or relevant Obligor and (ii) the Company or an Obligor becoming aware of the failure to comply.

24.4 **Misrepresentation**

- (a) Any representation, warranty or statement made or deemed to be made by an Obligor in the Finance Documents or any other document delivered by or on behalf of any Obligor under or in connection with any Finance Document is or proves to have been incorrect or misleading when made or deemed to be made.
- (b) No Event of Default under paragraph (a) above will occur if the failure to comply is capable of remedy and is remedied within 10 Business Days after the earlier of (i) the Agent giving notice to the Company or relevant Obligor and (ii) the Company or an Obligor becoming aware of the failure to comply.

24.5 **Cross default**

- (a) Any Financial Indebtedness of any member of the Group is not paid when due nor within any originally applicable grace period.
- (b) Any Financial Indebtedness of any member of the Group is declared to be or otherwise becomes due and payable prior to its specified maturity as a result of an event of default (however described).
- (c) Any commitment for any Financial Indebtedness of any member of the Group is cancelled or suspended by a creditor of any member of the Group as a result of an event of default (however described).
- (d) Any creditor of any member of the Group becomes entitled to declare any Financial Indebtedness of any member of the Group due and payable prior to its specified maturity as a result of an event of default (however described).
- (e) No Event of Default will occur under this Clause 24.5 if the aggregate amount of Financial Indebtedness or commitment for Financial Indebtedness falling within paragraphs (a) to (d) above is less than \$5,000,000 (or its Base Currency Equivalent).

24.6 **Insolvency**

- (a) An Obligor:
  - (i) is unable or admits inability to pay its debts as they fall due;
  - (ii) is deemed to, or is declared to, be unable to pay its debts under applicable law
  - (iii) suspends or threatens to suspend making payments on any of its debts; or

- (iv) by reason of actual or anticipated financial difficulties, commences negotiations with one or more of its creditors (excluding any Finance Party in its capacity as such) with a view to rescheduling any of its indebtedness.
- (b) A moratorium is declared in respect of any indebtedness of any member of the Group. If a moratorium occurs, the ending of the moratorium will not remedy any Event of Default caused by that moratorium.
- (c) With respect to any US Obligor:
  - (i) the present fair saleable value of the assets of such US Obligor is on the date of determination, lower than the total amount of liabilities (including contingent and unliquidated liabilities) of such US Obligor;
  - (ii) such US Obligor has unreasonably small capital with which to conduct its business;
  - (iii) such US Obligor is incurring, intends to incur or believes that it will incur debts beyond its ability to pay as the same become due (whether at maturity or otherwise), or admits in writing its inability to pay its debts as they become due (whether at maturity or otherwise); or
  - (iv) such US Obligor has entered into any transaction with the intention of hindering, delaying or defrauding any present or future creditor of such US Obligor,

provided that in computing the amount of contingent or unliquidated liabilities at any time, such liabilities will be computed at the amount which, in light of all the facts and circumstances existing at such time, represents the amount that can be reasonably be expected to become an actual or matured liability.

#### 24.7 **Insolvency proceedings**

- (a) Any corporate action, legal proceedings or other procedure or step is taken in relation to:
  - (i) the suspension of payments, a moratorium of any indebtedness, winding-up, dissolution, administration or reorganisation (by way of voluntary arrangement, scheme of arrangement or otherwise) of any Obligor;
  - (ii) a composition, compromise, assignment or arrangement with any creditor of any Obligor;
  - (iii) the appointment of a liquidator, receiver, administrative receiver, administrator, compulsory manager or other similar officer in respect of any Obligor or any of its assets; or
  - (iv) enforcement of any Security over any assets of any Obligor,or any analogous procedure or step is taken in any jurisdiction.
- (b) Paragraph (a) shall not apply to:
  - (i) any winding-up petition which is frivolous or vexatious and is discharged, stayed or dismissed before it is advertised and in any event within 14 days of commencement; or

- (ii) any step or procedure contemplated by paragraph (b) of the definition of Permitted Transaction.

**24.8 Creditors' process**

Any expropriation, attachment, sequestration, distress or execution or any analogous process in any jurisdiction affects any asset or assets of a member of the Group having an aggregate value of \$5,000,000 or more and is not discharged within 14 days.

**24.9 Unlawfulness and invalidity**

- (a) It is or becomes unlawful for an Obligor to perform any of its obligations under the Finance Documents or any Transaction Security created or expressed to be created or evidenced by the Transaction Security Documents ceases to be effective.
- (b) Any obligation or obligations of any Obligor under any Finance Document are not (subject to the Legal Reservations) or cease to be legal, valid, binding or enforceable and the cessation individually or cumulatively materially and adversely affects the interests of the Lenders under the Finance Documents.
- (c) Any Finance Document ceases to be in full force and effect or any Transaction Security ceases to be legal, valid, binding, enforceable or effective in any material respect or is alleged by a party to it (other than a Finance Party) to be ineffective in any material respect.

**24.10 Cessation of business**

An Obligor suspends or ceases to carry on (or threatens to suspend or cease to carry on) all or a material part of its business except as a result of a disposal which is a Permitted Disposal or a Permitted Transaction which is contemplated in paragraphs (a) or (b) of the definition of that term.

**24.11 Change of ownership**

An Obligor (other than the Company) ceases to be a wholly-owned Subsidiary of the Company, except as a result of a disposal which is a Permitted Disposal.

**24.12 Audit qualification**

The Company's Auditors qualify the audited annual consolidated financial statements of the Company (other than a going concern qualification based solely on any Obligor having negative profits or a determination that any Obligor has less than 12 months liquidity).

**24.13 Repudiation and rescission of agreements**

An Obligor (or any other relevant party) rescinds or purports to rescind or repudiates or purports to repudiate a Finance Document or any of the Transaction Security or evidences an intention to rescind or repudiate a Finance Document or any Transaction Security.

**24.14 Litigation**

Any litigation, arbitration or administrative proceedings or investigations of, or before, any court, arbitral body or agency are started or threatened, or any judgment or order of a court, arbitral body or agency is made, in relation to the Finance Documents or the transactions contemplated in the Finance Documents or against any member of the Group or its assets which have, or has, or are, or is, reasonably likely to have a Material Adverse Effect.

24.15 **Material adverse change**

Any event or circumstance occurs which has or is reasonably likely to have a Material Adverse Effect.

24.16 **ERISA Event**

The occurrence of one or more ERISA Events that:

- (a) results in the imposition of a lien or the incurring of a liability by any Obligor; and
- (b) individually or in aggregate would have or would reasonably be expected to have a Material Adverse Effect.

24.17 **US insolvency proceedings**

Any of the following occurs in respect of an Obligor:

- (a) it commences a voluntary case or proceeding under any existing or future US Debtor Relief Law; or
- (b) an involuntary case under any existing or future US Debtor Relief Law is commenced against it and either (x) the case is not dismissed or stayed within 45 days after commencement of the case or (y) an order for relief is issued.

24.18 **Acceleration**

On and at any time after the occurrence of an Event of Default which is continuing the Agent may, and shall if so directed by the Majority Lenders:

- (a) by notice to the Company;
  - (i) cancel the Total Commitments at which time they shall immediately be cancelled;
  - (ii) declare that all or part of the Utilisations, together with accrued interest, and all other amounts accrued or outstanding under the Finance Documents be immediately due and payable, at which time they shall become immediately due and payable;
  - (iii) declare that all or part of the Utilisations be payable on demand, at which time they shall immediately become payable on demand by the Agent on the instructions of the Majority Lenders; and/or
- (b) exercise or direct the Security Agent to exercise any or all of its rights, remedies, powers or discretions under the Finance Documents.

24.19 **Acceleration for US insolvency proceedings**

If an Event of Default under Clause 24.19 (*US Insolvency Proceedings*) shall occur in respect of any Obligor, then, in addition to the remedies set forth elsewhere in this Agreement, in the other Finance Documents and under applicable law, and without any notice to any Obligor or any other Person or any act by any Finance Party, (i) the Total Commitments and any obligation of the Lenders to issue guarantees or other financial accommodations hereunder shall automatically terminate and (ii) all principal of the Loans then outstanding, together with accrued interest thereon and all fees and other obligations of the Obligors accrued under the Finance Documents shall immediately become due and

payable and Obligors shall be obligated to repay all of such obligations in full, without presentment, demand, protest, or notice of any kind, all of which are expressly waived by each Obligor.

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**SECTION 9**

**CHANGES TO PARTIES**

25. **CHANGES TO THE LENDERS**

25.1 **Assignments and transfers by the Lenders**

(a) Subject to this Clause 25, a Lender (the "**Existing Lender**") may:

- (i) assign any of its rights; or
- (ii) transfer by novation any of its rights and obligations,

under any Finance Document to another bank or financial institution or to a trust, fund or other entity which is regularly engaged in or established for the purpose of making, purchasing or investing in loans, securities or other financial assets (the "**New Lender**").

25.2 **Conditions of assignment or transfer**

- (a) The consent of the Company is required for an assignment or transfer by an Existing Lender to any entity which is (A) a hedge fund, private equity fund or similar public or private investment vehicle that is routinely engaged in the business of investing in distressed debt or (B) a Competitor, unless such transfer is made at a time when an Event of Default is continuing.
- (b) The consent of the Company to an assignment or transfer must not be unreasonably withheld or delayed. The Company will be deemed to have given its consent five Business Days after the Existing Lender has requested it unless consent is expressly refused by the Company within that time.
- (c) An assignment or transfer of part of a Lender's participation in any Facility must be in an amount such that the amount of that Lender's remaining participation (when aggregated with its Affiliates' and Related Funds' participation) in respect of Commitments or Utilisations made under the Facilities (taken together) is in minimum amount of \$1,000,000;
- (d) An assignment will only be effective on:
  - (i) receipt by the Agent (whether in the Assignment Agreement or otherwise) of written confirmation from the New Lender (in form and substance satisfactory to the Agent) that the New Lender will assume the same obligations to the other Finance Parties and the other Secured Parties as it would have been under if it had been an Original Lender; and
  - (ii) performance by the Agent of all necessary "know your customer" or other similar checks under all applicable laws and regulations in relation to such assignment to a New Lender, the completion of which the Agent shall promptly notify to the Existing Lender and the New Lender.
- (e) A transfer will only be effective if the procedure set out in Clause 25.5 (*Procedure for transfer*) is complied with.
- (f) If:

- (i) a Lender assigns or transfers any of its rights or obligations under the Finance Documents or changes its Facility Office; and
- (ii) as a result of circumstances existing at the date the assignment, transfer or change occurs, an Obligor would be obliged to make a payment to the New Lender or Lender acting through its new Facility Office under Clause 15 (*Increased Costs*),

then the New Lender or Lender acting through its new Facility Office is only entitled to receive payment under that Clause to the same extent as the Existing Lender or Lender acting through its previous Facility Office would have been if the assignment, transfer or change had not occurred. This paragraph (f) shall not apply in respect of an assignment or transfer made in the ordinary course of the primary syndication of any Facility.

- (g) Each New Lender, by executing the relevant Transfer Certificate or Assignment Agreement, confirms, for the avoidance of doubt, that the Agent has authority to execute on its behalf any amendment or waiver that has been approved by or on behalf of the requisite Lender or Lenders in accordance with this Agreement on or prior to the date on which the transfer or assignment becomes effective in accordance with this Agreement and that it is bound by that decision to the same extent as the Existing Lender would have been had it remained a Lender.

### 25.3 **Assignment or transfer fee**

- (a) Subject to paragraph (b) below, the New Lender shall, on the date upon which an assignment or transfer takes effect, pay to the Agent (for its own account) a fee of \$3,500.
- (b) No fee is payable pursuant to paragraph (a) above if:
  - (i) the Agent agrees that no fee is payable; or
  - (ii) the assignment or transfer is made by an Existing Lender:
    - (1) to an Affiliate of that Existing Lender; or
    - (2) to a fund which is a Related Fund of that Existing Lender.

### 25.4 **Limitation of responsibility of Existing Lenders**

- (a) Unless expressly agreed to the contrary, an Existing Lender makes no representation or warranty and assumes no responsibility to a New Lender for:
  - (i) the legality, validity, effectiveness, adequacy or enforceability of the Transaction Documents, the Transaction Security or any other documents;
  - (ii) the financial condition of any Obligor;
  - (iii) the performance and observance by any Obligor or any other member of the Group of its obligations under the Transaction Documents or any other documents; or
  - (iv) the accuracy of any statements (whether written or oral) made in or in connection with any Transaction Document or any other document,and any representations or warranties implied by law are excluded.



- (b) Each New Lender confirms to the Existing Lender, the other Finance Parties and the Secured Parties that it:
  - (i) has made (and shall continue to make) its own independent investigation and assessment of the financial condition and affairs of each Obligor and its related entities in connection with its participation in this Agreement and has not relied exclusively on any information provided to it by the Existing Lender or any other Finance Party in connection with any Transaction Document or the Transaction Security; and
  - (ii) will continue to make its own independent appraisal of the creditworthiness of each Obligor and its related entities whilst any amount is or may be outstanding under the Finance Documents or any Commitment is in force.
- (c) Nothing in any Finance Document obliges an Existing Lender to:
  - (i) accept a re-transfer or reassignment from a New Lender of any of the rights and obligations assigned or transferred under this Clause 25; or
  - (ii) support any losses directly or indirectly incurred by the New Lender by reason of the non-performance by any Obligor of its obligations under the Transaction Documents or otherwise.

#### 25.5 Procedure for transfer

- (a) Subject to the conditions set out in Clause 25.2 (*Conditions of assignment or transfer*) a transfer is effected in accordance with paragraph (b) below when the Agent executes an otherwise duly completed Transfer Certificate delivered to it by the Existing Lender and the New Lender. The Agent shall, subject to paragraph (b) below, as soon as reasonably practicable after receipt by it of a duly completed Transfer Certificate appearing on its face to comply with the terms of this Agreement and delivered in accordance with the terms of this Agreement, execute that Transfer Certificate.
- (b) The Agent shall only be obliged to execute a Transfer Certificate delivered to it by the Existing Lender and the New Lender once it is satisfied it has complied with all necessary "know your customer" or other similar checks under all applicable laws and regulations in relation to the transfer to such New Lender.
- (c) Subject to Clause 25.9 (*Pro Rata Interest Settlement*) on the Transfer Date:
  - (i) to the extent that in the Transfer Certificate the Existing Lender seeks to transfer by novation its rights, benefits and obligations under the Finance Documents and in respect of the Transaction Security each of the Obligors and the Existing Lender shall be released from further obligations towards one another under the Finance Documents and in respect of the Transaction Security and their respective rights against one another under the Finance Documents and in respect of the Transaction Security shall be cancelled (being the "**Discharged Rights and Obligations**");
  - (ii) each of the Obligors and the New Lender shall assume obligations towards one another and/or acquire rights and benefits against one another which differ from the Discharged Rights and Obligations only insofar as that Obligor or other member of the Group and the New Lender have assumed and/or acquired the same in place of that Obligor and the Existing Lender;

- (iii) the Agent, the Arranger, the Security Agent, the New Lender and the other Lenders shall acquire the same rights and assume the same obligations between themselves and in respect of the Transaction Security as they would have acquired and assumed had the New Lender been an Original Lender with the rights, and/or obligations acquired or assumed by it as a result of the transfer and to that extent the Agent, the Arranger and the Security Agent and the Existing Lender shall each be released from further obligations to each other under the Finance Documents; and
- (iv) the New Lender shall become a Party as a "Lender".

25.6 **Procedure for assignment**

- (a) Subject to the conditions set out in Clause 25.2 (*Conditions of assignment or transfer*) an assignment may be effected in accordance with paragraph (c) below when the Agent executes an otherwise duly completed Assignment Agreement delivered to it by the Existing Lender and the New Lender. The Agent shall, subject to paragraph (b) below, as soon as reasonably practicable after receipt by it of a duly completed Assignment Agreement appearing on its face to comply with the terms of this Agreement and delivered in accordance with the terms of this Agreement, execute that Assignment Agreement.
- (b) The Agent shall only be obliged to execute an Assignment Agreement delivered to it by the Existing Lender and the New Lender once it is satisfied it has complied with all necessary "know your customer" or other similar checks under all applicable laws and regulations in relation to the assignment to such New Lender.
- (c) Subject to Clause 25.9 (*Pro Rata Interest Settlement*) on the Transfer Date:
  - (i) the Existing Lender will assign absolutely to the New Lender its rights under the Finance Documents and in respect of the Transaction Security expressed to be the subject of the assignment in the Assignment Agreement;
  - (ii) the Existing Lender will be released from the obligations (the "**Relevant Obligations**") expressed to be the subject of the release in the Assignment Agreement (and any corresponding obligations by which it is bound in respect of the Transaction Security); and
  - (iii) the New Lender shall become a Party as a "Lender" and will be bound by obligations equivalent to the Relevant Obligations.
- (d) Lenders may utilise procedures other than those set out in this Clause 25.6 to assign their rights under the Finance Documents (but not, without the consent of the relevant Obligor or unless in accordance with Clause 25.5 (*Procedure for transfer*), to obtain a release by that Obligor from the obligations owed to that Obligor by the Lenders nor the assumption of equivalent obligations by a New Lender) provided that they comply with the conditions set out in Clause 25.2 (*Conditions of assignment or transfer*).

25.7 **Copy of Transfer Certificate, Assignment Agreement or Increase Confirmation to Company**

The Agent shall, as soon as reasonably practicable after it has executed a Transfer Certificate or an Assignment Agreement or Increase Confirmation, send to the Company a copy of that Transfer Certificate or Assignment Agreement or Increase Confirmation.

25.8 **Security Interests over Lenders' rights**

In addition to the other rights provided to Lenders under this Clause 25, each Lender may without consulting with or obtaining consent from any Obligor, at any time charge, assign or otherwise create Security in or over (whether by way of collateral or otherwise) all or any of its rights under any Finance Document to secure obligations of that Lender including, without limitation:

- (a) any charge, assignment or other Security to secure obligations to a federal reserve or central bank; and
- (b) any charge, assignment or other Security granted to any holders (or trustee or representatives of holders) of obligations owed, or securities issued, by that Lender as security for those obligations or securities,  
except that no such charge, assignment or Security shall:
  - (i) release a Lender from any of its obligations under the Finance Documents or substitute the beneficiary of the relevant charge, assignment or Security for the Lender as a party to any of the Finance Documents; or
  - (ii) require any payments to be made by an Obligor other than or in excess of, or grant to any person any more extensive rights than, those required to be made or granted to the relevant Lender under the Finance Documents.

25.9 **Pro Rata Interest Settlement**

- (a) If the Agent has notified the Lenders that it is able to distribute interest payments on a "pro rata basis" to Existing Lenders and New Lenders then (in respect of any transfer pursuant to Clause 25.5 (*Procedure for transfer*) or any assignment pursuant to Clause 25.6 (*Procedure for assignment*) the Transfer Date of which, in each case, is after the date of such notification and is not on the last day of an Interest Period):
  - (i) any interest or fees in respect of the relevant participation which are expressed to accrue by reference to the lapse of time shall continue to accrue in favour of the Existing Lender up to but including the Transfer Date ("Accrued Amounts") and shall become due and payable to the Existing Lender (without further interest accruing on them) until the last day of the current Interest Period (or, if the Interest Period is longer than six Months, on the next of the dates which falls at six Monthly intervals after the first day of that Interest Period); and
  - (ii) the rights assigned or transferred by the Existing Lender will not include the right to the Accrued Amounts so that, for the avoidance of doubt:
    - (1) when the Accrued Amounts become payable, those Accrued Amounts will be payable for the account of the Existing Lender, and

(2) the amount payable to the New Lender on that date will be the amount which would, but for the application of this Clause 25.9, have been payable to it on that date, but after deduction of the Accrued Amounts.

- (b) In this Clause 25.9 references to "Interest Period" shall be construed to include a reference to any other period for accrual of fees.
- (c) An Existing Lender which retains the right to the Accrued Amounts pursuant to this Clause 25.9 but which does not have a Commitment shall be deemed not to be a Lender for the purposes of ascertaining whether the agreement of any specified group of Lenders has been obtained to approve any request for a consent, waiver, amendment or other vote of Lenders under the Finance Documents.

26. **CHANGES TO THE OBLIGORS**

26.1 **Assignment and transfers by Obligors**

No Obligor or any other member of the Group may assign any of its rights or transfer any of its rights or obligations under the Finance Documents.

26.2 **Additional Borrowers**

- (a) Subject to compliance with the provisions of paragraphs (c) and (d) of Clause 21.8 ("*Know your customer*" checks), the Company may request that any of its wholly owned Subsidiaries which is not a Dormant Subsidiary becomes a Borrower. That Subsidiary shall become a Borrower if:
  - (i) all the Lenders approve the addition of that Subsidiary;
  - (ii) the Company and that Subsidiary deliver to the Agent a duly completed and executed Accession Deed;
  - (iii) the Subsidiary is (or becomes) a Guarantor prior to becoming a Borrower;
  - (iv) the Company confirms that no Default is continuing or would occur as a result of that Subsidiary becoming an Additional Borrower; and
  - (v) the Agent has received all of the documents and other evidence listed in Part 2 of Schedule 2 (*Conditions Precedent*) in relation to that Additional Borrower, each in form and substance satisfactory to the Agent.
- (b) The Agent shall notify the Company and the Lenders promptly upon being satisfied that it has received (in form and substance satisfactory to it) all the documents and other evidence referred to in sub-paragraph (a)(v) of this Clause.
- (c) The Lenders may impose whatever limitations they deem reasonably necessary on the ability of any Additional Borrower to utilise any Facility.
- (d) Other than to the extent that the Majority Lenders notify the Agent in writing to the contrary before the Agent gives the notification described in paragraph (b) above, the Lenders authorise (but do not require) the Agent to give that notification. The Agent shall not be liable for any damages, costs or losses whatsoever as a result of giving any such notification.

### 26.3 Resignation of a Borrower

- (a) In this Clause 26.3, Clause 26.5 (*Resignation of a Guarantor*) and Clause 26.7 (*Resignation and release of security on disposal*), "**Third Party Disposal**" means the disposal of an Obligor to a person which is not a member of the Group where that disposal is permitted under Clause 23.18 (*Disposals*) or made with the approval of the Majority Lenders (and the Company has confirmed this is the case).
- (b) If a Borrower is the subject of a Third Party Disposal, the Company may request that such Borrower (other than the Company) ceases to be a Borrower by delivering to the Agent a Resignation Letter.
- (c) The Agent shall accept a Resignation Letter and notify the Company and the other Finance Parties of its acceptance if:
  - (i) the Company has confirmed that no Default is continuing or would result from the acceptance of the Resignation Letter;
  - (ii) the Borrower is under no actual or contingent obligations as a Borrower under any Finance Documents;
  - (iii) where the Borrower is also a Guarantor (unless its resignation has been accepted in accordance with Clause 26.5 (*Resignation of a Guarantor*)), its obligations in its capacity as Guarantor continue to be legal, valid, binding and enforceable and in full force and effect (subject to the Legal Reservations) and the amount guaranteed by it as a Guarantor is not decreased (and the Company has confirmed this is the case); and
  - (iv) the Company has confirmed that it shall ensure that any relevant Disposal Proceeds will be applied in accordance with Clause 8.2 (*Disposal, Insurance and Acquisition Proceeds*).
- (d) Upon notification by the Agent to the Company of its acceptance of the resignation of a Borrower, that company shall cease to be a Borrower and shall have no further rights or obligations under the Finance Documents as a Borrower except that the resignation shall not take effect (and the Borrower will continue to have rights and obligations under the Finance Documents) until the date on which the Third Party Disposal takes effect.
- (e) The Agent may, at the cost and expense of the Company, require a legal opinion from counsel to the Agent confirming the matters set out in paragraph (c)(iii) above and the Agent shall be under no obligation to accept a Resignation Letter until it has obtained such opinion in form and substance satisfactory to it.

### 26.4 Additional Guarantors

- (a) Subject to compliance with the provisions of paragraphs (c) and (d) of Clause 21.8 ("*Know your customer*" checks), the Company may request that any of its wholly owned subsidiaries become a Guarantor.
- (b) The Company shall procure that any other member of the Group which is not a Dormant Subsidiary shall, subject to the Agreed Security Principles, as soon as possible and in any event within 30 days after becoming a member of the Group (or ceasing to be a Dormant Subsidiary), become an Additional Guarantor and grant such Security as the Agent may require.

- (c) A member of the Group shall become an Additional Guarantor if:
  - (i) the Company and the proposed Obligor deliver to the Agent a duly completed and executed Accession Deed; and
  - (ii) the Agent has received all of the documents and other evidence listed in Part 2 of Schedule 2 (*Conditions Precedent*) in relation to that Additional Obligor, each in form and substance satisfactory to the Agent.
- (d) The Agent shall notify the Company and the Lenders promptly upon being satisfied that it has received (in form and substance satisfactory to it) all the documents and other evidence listed in Part 2 of Schedule 2 (*Conditions Precedent*).
- (e) If any legal prohibition would prevent or limit a Subsidiary's ability to become an Additional Guarantor and/or to enter into Transaction Security, the Obligors shall use their reasonable endeavours lawfully to overcome the prohibition.

#### 26.5 **Resignation of a Guarantor**

- (a) The Company may request that a Guarantor (other than the Company) ceases to be a Guarantor by delivering to the Agent a Resignation Letter if:
  - (i) that Guarantor is being disposed of by way of a Third Party Disposal (as defined in Clause 26.3 (*Resignation of a Borrower*)) and the Company has confirmed this is the case; or
  - (ii) all the Lenders have consented to the resignation of that Guarantor.
- (b) The Agent shall accept a Resignation Letter and notify the Borrower and the Lenders of its acceptance if:
  - (i) the Company has confirmed that no Default is continuing or would result from the acceptance of the Resignation Letter;
  - (ii) no payment is due from the Guarantor under Clause 19.1 (*Guarantee and indemnity*);
  - (iii) where the Guarantor is also a Borrower, it is under no actual or contingent obligations as a Borrower and has resigned and ceased to be a Borrower under Clause 26.3 (*Resignation of a Borrower*); and
  - (iv) the Company has confirmed that it shall ensure that the Disposal Proceeds will be applied, in accordance with Clause 8.2 (*Disposal, Insurance and Acquisition Proceeds*).
- (c) The resignation of that Guarantor shall not be effective until the date of the relevant Third Party Disposal at which time that company shall cease to be a Guarantor and shall have no further rights or obligations under the Finance Documents as a Guarantor.

#### 26.6 **Repetition of representations**

Delivery of an Accession Deed constitutes confirmation by the relevant Subsidiary that the representations and warranties referred to in paragraph (d) of Clause 20.34 (*Times when representations made*) are true and correct in relation to it as at the date of delivery as if made by reference to the facts and circumstances then existing.

26.7 **Resignation and release of security on disposal**

If a Borrower or a Guarantor is or is proposed to be the subject of a Third Party Disposal then:

- (a) where that Borrower or Guarantor created Transaction Security over any of its assets or business in favour of the Security Agent, or Transaction Security in favour of the Security Agent was created over the shares (or equivalent) of that Borrower or Guarantor, the Security Agent may, at the cost and request of the Company, release those assets, business or shares (or equivalent) and issue certificates of non-crystallisation; and
- (b) any resignation of that Borrower or Guarantor and related release of Transaction Security referred to in paragraph (a) above shall become effective only on the making of that disposal.

**SECTION 10**

**THE FINANCE PARTIES**

**27. ROLE OF THE AGENT, THE ARRANGER AND OTHERS**

**27.1 Appointment of the Agent**

- (a) Each of the Arranger and the Lenders appoints the Agent to act as its agent under and in connection with the Finance Documents.
- (b) Each of the Arranger and the Lenders authorises the Agent to perform the duties, obligations and responsibilities and to exercise the rights, powers, authorities and discretions specifically given to the Agent under or in connection with the Finance Documents together with any other incidental rights, powers, authorities and discretions.

**27.2 Instructions**

- (a) The Agent shall:
  - (i) unless a contrary indication appears in a Finance Document, exercise or refrain from exercising any right, power, authority or discretion vested in it as Agent in accordance with any instructions given to it by:
    - (1) all Lenders if the relevant Finance Document stipulates the matter is an all Lender decision; and
    - (2) in all other cases, the Majority Lenders; and
  - (ii) not be liable for any act (or omission) if it acts (or refrains from acting) in accordance with paragraph (i) above.
- (b) The Agent shall be entitled to request instructions, or clarification of any instruction, from the Majority Lenders (or, if the relevant Finance Document stipulates the matter is a decision for any other Lender or group of Lenders, from that Lender or group of Lenders) as to whether, and in what manner, it should exercise or refrain from exercising any right, power, authority or discretion and the Agent may refrain from acting unless and until it receives any such instructions or clarification that it has requested.
- (c) Save in the case of decisions stipulated to be a matter for any other Lender or group of Lenders under the relevant Finance Document and unless a contrary indication appears in a Finance Document, any instructions given to the Agent by the Majority Lenders shall override any conflicting instructions given by any other Parties and will be binding on all Finance Parties save for the Security Agent.
- (d) The Agent may refrain from acting in accordance with any instructions of any Lender or group of Lenders until it has received any indemnification and/or security that it may in its discretion require (which may be greater in extent than that contained in the Finance Documents and which may include payment in advance) for any cost, loss or liability which it may incur in complying with those instructions.
- (e) In the absence of instructions, the Agent may act (or refrain from acting) as it considers to be in the best interest of the Lenders.



- (f) The Agent is not authorised to act on behalf of a Lender (without first obtaining that Lender's consent) in any legal or arbitration proceedings relating to any Finance Document. This paragraph (f) shall not apply to any legal or arbitration proceeding relating to the perfection, preservation or protection of rights under the Transaction Security Documents or enforcement of the Transaction Security or Transaction Security Documents.

27.3

**Duties of the Agent**

- (a) The Agent's duties under the Finance Documents are solely mechanical and administrative in nature.
- (b) Subject to paragraph (c) below, the Agent shall promptly forward to a Party the original or a copy of any document which is delivered to the Agent for that Party by any other Party.
- (c) Without prejudice to Clause 25.7 (*Copy of Transfer Certificate, Assignment Agreement or Increase Confirmation to Company*), paragraph (b) above shall not apply to any Transfer Certificate, any Assignment Agreement or any Increase Confirmation.
- (d) Except where a Finance Document specifically provides otherwise, the Agent is not obliged to review or check the adequacy, accuracy or completeness of any document it forwards to another Party.
- (e) If the Agent receives notice from a Party referring to this Agreement, describing a Default and stating that the circumstance described is a Default, it shall promptly notify the other Finance Parties. The Agent is not obliged to monitor or enquire whether a Default has occurred.
- (f) If the Agent is aware of the non-payment of any principal, interest, commitment fee or other fee payable to a Finance Party (other than the Agent, the Arranger or the Security Agent) under this Agreement it shall promptly notify the other Finance Parties.
- (g) The Agent shall have only those duties, obligations and responsibilities expressly specified in the Finance Documents to which it is expressed to be a party (and no others shall be implied).

27.4

**Role of the Arranger**

Except as specifically provided in the Finance Documents, the Arranger has no obligations of any kind to any other Party under or in connection with any Finance Document.

27.5

**No fiduciary duties**

- (a) Nothing in any Finance Document constitutes the Agent or the Arranger as a trustee or fiduciary of any other person.
- (b) Neither the Agent nor the Arranger shall be bound to account to any Lender for any sum or the profit element of any sum received by it for its own account.

27.6

**Business with the Group**

The Agent and the Arranger may accept deposits from, lend money to and generally engage in any kind of banking or other business with any member of the Group.

27.7

**Rights and discretions**

- (a) The Agent may:
  - (i) rely on any representation, communication, notice or document believed by it to be genuine, correct and appropriately authorised;
  - (ii) assume that:
    - (1) any instructions received by it from the Majority Lenders, any Lenders or any group of Lenders are duly given in accordance with the terms of the Finance Documents; and
    - (2) unless it has received notice of revocation, that those instructions have not been revoked; and
  - (iii) rely on a certificate from any person:
    - (1) as to any matter of fact or circumstance which might reasonably be expected to be within the knowledge of that person; or
    - (2) to the effect that such person approves of any particular dealing, transaction, step, action or thing, as sufficient evidence that that is the case and, in the case of paragraph (1) above, may assume the truth and accuracy of that certificate.
- (b) The Agent may assume (unless it has received notice to the contrary in its capacity as agent for the Lenders) that:
  - (i) no Default has occurred (unless it has actual knowledge of a Default arising under Clause 24.1 (*Non-payment*));
  - (ii) any right, power, authority or discretion vested in any Party or any group of Lenders has not been exercised; and
  - (iii) any notice or request made by the Company (other than a Utilisation Request or Selection Notice) is made on behalf of and with the consent and knowledge of all the Obligors.
- (c) The Agent may engage and pay for the advice or services of any lawyers, accountants, tax advisers, surveyors or other professional advisers or experts.
- (d) Without prejudice to the generality of paragraph (c) above or paragraph (e) below, the Agent may at any time engage and pay for the services of any lawyers to act as independent counsel to the Agent (and so separate from any lawyers instructed by the Lenders) if the Agent in its reasonable opinion deems this to be desirable.
- (e) The Agent may rely on the advice or services of any lawyers, accountants, tax advisers, surveyors or other professional advisers or experts (whether obtained by the Agent or by any other Party) and shall not be liable for any damages, costs or losses to any person, any diminution in value or any liability whatsoever arising as a result of its so relying.
- (f) The Agent may act in relation to the Finance Documents through its officers, employees and agents and the Agent shall not:

- (i) be liable for any error of judgment made by any such person; or
- (ii) be bound to supervise, or be in any way responsible for any loss incurred by reason of misconduct, omission or default on the part, of any such person,

unless such error or such loss was directly caused by the Agent's gross negligence or wilful misconduct.

(g) Unless a Finance Document expressly provides otherwise the Agent may disclose to any other Party any information it reasonably believes it has received as agent under this Agreement.

(h) Without prejudice to the generality of paragraph (g) above, the Agent:

- (i) may disclose; and
- (ii) on the written request of the Company or the Majority Lenders shall, as soon as reasonably practicable, disclose,

the identity of a Defaulting Lender to the Company and to the other Finance Parties.

(i) Notwithstanding any other provision of any Finance Document to the contrary, none of the Agent or the Arranger is obliged to do or omit to do anything if it would, or might in its reasonable opinion, constitute a breach of any law or regulation or a breach of a fiduciary duty or duty of confidentiality.

(j) Notwithstanding any provision of any Finance Document to the contrary, the Agent is not obliged to expend or risk its own funds or otherwise incur any financial liability in the performance of its duties, obligations or responsibilities or the exercise of any right, power, authority or discretion if it has grounds for believing the repayment of such funds or adequate indemnity against, or security for, such risk or liability is not reasonably assured to it.

## 27.8 **Responsibility for documentation**

Neither the Agent or the Arranger is responsible or liable for:

- (a) the adequacy, accuracy or completeness of any information (whether oral or written) supplied by the Agent, the Arranger, an Obligor or any other person in or in connection with any Finance Document or the transactions contemplated in the Finance Documents or any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with any Finance Document;
- (b) the legality, validity, effectiveness, adequacy or enforceability of any Finance Document or the Transaction Security or any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with any Finance Document or the Transaction Security; or
- (c) any determination as to whether any information provided or to be provided to any Finance Party is non-public information the use of which may be regulated or prohibited by applicable law or regulation relating to insider dealing or otherwise.

27.9 **No duty to monitor**

The Agent shall not be bound to enquire:

- (a) whether or not any Default has occurred;
- (b) as to the performance, default or any breach by any Party of its obligations under any Finance Document; or
- (c) whether any other event specified in any Finance Document has occurred.

27.10 **Exclusion of liability**

- (a) Without limiting paragraph (b) below (and without prejudice to any other provision of any Finance Document excluding or limiting the liability of the Agent, the Agent will not be liable (including, without limitation, for negligence or any other category of liability whatsoever) for:
  - (i) any damages, costs or losses to any person, any diminution in value, or any liability whatsoever arising as a result of taking or not taking any action under or in connection with any Finance Document or the Transaction Security, unless directly caused by its gross negligence or wilful misconduct;
  - (ii) exercising, or not exercising, any right, power, authority or discretion given to it by, or in connection with, any Finance Document, the Transaction Security or any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with, any Finance Document or the Transaction Security; or
  - (iii) without prejudice to the generality of paragraphs (i) and (ii) above, any damages, costs or losses to any person, any diminution in value or any liability whatsoever arising as a result of:
    - (1) any act, event or circumstance not reasonably within its control; or
    - (2) the general risks of investment in, or the holding of assets in, any jurisdiction,including (in each case and without limitation) such damages, costs, losses, diminution in value or liability arising as a result of: nationalisation, expropriation or other governmental actions; any regulation, currency restriction, devaluation or fluctuation; market conditions affecting the execution or settlement of transactions or the value of assets (including any Disruption Event); breakdown, failure or malfunction of any third party transport, telecommunications, computer services or systems; natural disasters or acts of God; war, terrorism, insurrection or revolution; or strikes or industrial action.
- (b) No Party (other than the Agent) may take any proceedings against any officer, employee or agent of the Agent, in respect of any claim it might have against the Agent or in respect of any act or omission of any kind by that officer, employee or agent in relation to any Finance Document or any Transaction Document and any officer, employee or agent of the Agent may rely on this Clause subject to Clause 1.3 (*Third party rights*) and the provisions of the Third Parties Act.

(c) The Agent will not be liable for any delay (or any related consequences) in crediting an account with an amount required under the Finance Documents to be paid by the Agent if the Agent has taken all necessary steps as soon as reasonably practicable to comply with the regulations or operating procedures of any recognised clearing or settlement system used by the Agent for that purpose.

(d) Nothing in this Agreement shall oblige the Agent or the Arranger to carry out:

(i) any "know your customer" or other checks in relation to any person; or

(ii) any check on the extent to which any transaction contemplated by this Agreement might be unlawful for any Lender or for any Affiliate of any Lender,

on behalf of any Lender and each Lender confirms to the Agent and the Arranger that it is solely responsible for any such checks it is required to carry out and that it may not rely on any statement in relation to such checks made by the Agent or the Arranger.

(e) Without prejudice to any provision of any Finance Document excluding or limiting the Agent's liability, any liability of the Agent arising under or in connection with any Finance Document or the Transaction Security shall be limited to the amount of actual loss which has been finally judicially determined to have been suffered (as determined by reference to the date of default of the Agent or, if later, the date on which the loss arises as a result of such default) but without reference to any special conditions or circumstances known to the Agent at any time which increase the amount of that loss. In no event shall the Agent be liable for any loss of profits, goodwill, reputation, business opportunity or anticipated saving, or for special, punitive, indirect or consequential damages, whether or not the Agent has been advised of the possibility of such loss or damages.

#### 27.11 **Lenders' indemnity to the Agent**

(a) Each Lender shall (in proportion to its share of the Total Commitments or, if the Total Commitments are then zero, to its share of the Total Commitments immediately prior to their reduction to zero) indemnify the Agent, within three Business Days of demand, against any cost, loss or liability (including, without limitation, for negligence or any other category of liability whatsoever) incurred by the Agent (otherwise than by reason of the Agent's gross negligence or wilful misconduct) (or, in the case of any cost, loss or liability pursuant to Clause 31.11 (*Disruption to payment systems etc.*), notwithstanding the Agent's negligence, gross negligence or any other category of liability whatsoever but not including any claim based on the fraud of the Agent) in acting as Agent under the Finance Documents (unless the Agent has been reimbursed by an Obligor pursuant to a Finance Document).

(b) Subject to paragraph (c) below, the Company shall immediately on demand reimburse any Lender for any payment that Lender makes to the Agent pursuant to paragraph (a) above.

(c) Paragraph (b) above shall not apply to the extent that the indemnity payment in respect of which the Lender claims reimbursement relates to a liability of the Agent to an Obligor.

27.12 **Resignation of the Agent**

- (a) The Agent may resign and appoint one of its Affiliates as successor by giving notice to the Lenders and the Company.
- (b) Alternatively the Agent may resign by giving 30 days' notice to the Lenders and the Company, in which case the Majority Lenders (after consultation with the Company) may appoint a successor Agent.
- (c) If the Majority Lenders have not appointed a successor Agent in accordance with paragraph (b) above within 20 days after notice of resignation was given, the retiring Agent (after consultation with the Company) may appoint a successor Agent (acting through an office in the United Kingdom).
- (d) If the Agent wishes to resign because (acting reasonably) it has concluded that it is no longer appropriate for it to remain as agent and the Agent is entitled to appoint a successor Agent under paragraph (c) above, the Agent may (if it concludes (acting reasonably) that it is necessary to do so in order to persuade the proposed successor Agent to become a party to this Agreement as Agent) agree with the proposed successor Agent amendments to this Clause 27 and any other term of this Agreement dealing with the rights or obligations of the Agent consistent with then current market practice for the appointment and protection of corporate trustees together with any reasonable amendments to the agency fee payable under this Agreement which are consistent with the successor Agent's normal fee rates and those amendments will bind the Parties.
- (e) The retiring Agent shall, at its own cost, make available to the successor Agent such documents and records and provide such assistance as the successor Agent may reasonably request for the purposes of performing its functions as Agent under the Finance Documents.
- (f) The Agent's resignation notice shall only take effect upon the appointment of a successor.
- (g) Upon the appointment of a successor, the retiring Agent shall be discharged from any further obligation in respect of the Finance Documents (other than its obligations under paragraph (e) above) but shall remain entitled to the benefit of Clause 16.3 (*Indemnity to the Agent*) and this Clause 27 (and any agency fees for the account of the retiring Agent shall cease to accrue from (and shall be payable on) that date). Any successor and each of the other Parties shall have the same rights and obligations amongst themselves as they would have had if such successor had been an original Party.
- (h) The Agent shall resign in accordance with paragraph (b) above (and, to the extent applicable, shall use reasonable endeavours to appoint a successor Agent pursuant to paragraph (c) above) if on or after the date which is three months before the earliest FATCA Application Date relating to any payment to the Agent under the Finance Documents, either:
  - (i) the Agent fails to respond to a request under Clause 14.8 (*FATCA Information*) and the Company or a Lender reasonably believes that the Agent will not be (or will have ceased to be) a FATCA Exempt Party on or after that FATCA Application Date;

- (ii) the information supplied by the Agent pursuant to Clause 14.8 (*FATCA Information*) indicates that the Agent will not be (or will have ceased to be) a FATCA Exempt Party on or after that FATCA Application Date; or
- (iii) the Agent notifies the Company and the Lenders that the Agent will not be (or will have ceased to be) a FATCA Exempt Party on or after that FATCA Application Date;

and (in each case) the Company or a Lender reasonably believes that a Party will be required to make a FATCA Deduction that would not be required if the Agent were a FATCA Exempt Party, and the Company or that Lender, by notice to the Agent, requires it to resign.

#### 27.13 **Replacement of the Agent**

- (a) After consultation with the Company, the Majority Lenders may, by giving 30 days' notice to the Agent (or, at any time whilst the Agent is an Impaired Agent, by giving any shorter notice determined by the Majority Lenders) replace the Agent by appointing a successor Agent (acting through an office in the United Kingdom).
- (b) The retiring Agent shall (at its own cost if it is an Impaired Agent and otherwise at the expense of the Lenders) make available to the successor Agent such documents and records and provide such assistance as the successor Agent may reasonably request for the purposes of performing its functions as Agent under the Finance Documents.
- (c) The appointment of the successor Agent shall take effect on the date specified in the notice from the Majority Lenders to the retiring Agent. As from this date, the retiring Agent shall be discharged from any further obligation in respect of the Finance Documents (other than its obligations under paragraph (b) above) but shall remain entitled to the benefit of Clause 16.3 (*Indemnity to the Agent*) and this Clause 27 (and any agency fees for the account of the retiring Agent shall cease to accrue from (and shall be payable on) that date).
- (d) Any successor Agent and each of the other Parties shall have the same rights and obligations amongst themselves as they would have had if such successor had been an original Party.

#### 27.14 **Confidentiality**

- (a) In acting as agent for the Finance Parties, the Agent shall be regarded as acting through its agency division which shall be treated as a separate entity from any other of its divisions or departments.
- (b) If information is received by another division or department of the Agent, it may be treated as confidential to that division or department and the Agent shall not be deemed to have notice of it.

#### 27.15 **Relationship with the Lenders**

- (a) Subject to Clause 25.9 (*Pro Rata Interest Settlement*), the Agent may treat the person shown in its records as Lender at the opening of business (in the place of the Agent's principal office as notified to the Finance Parties from time to time) as the Lender acting through its Facility Office:

- (i) entitled to or liable for any payment due under any Finance Document on that day; and
- (ii) entitled to receive and act upon any notice, request, document or communication or make any decision or determination under any Finance Document made or delivered on that day,

unless it has received not less than five Business Days' prior notice from that Lender to the contrary in accordance with the terms of this Agreement.

- (b) Any Lender may by notice to the Agent appoint a person to receive on its behalf all notices, communications, information and documents to be made or dispatched to that Lender under the Finance Documents. Such notice shall contain the address, fax number and (where communication by electronic mail or other electronic means is permitted under Clause 33.6 (*Electronic communication*)) electronic mail address and/or any other information required to enable the transmission of information by that means (and, in each case, the department or officer, if any, for whose attention communication is to be made) and be treated as a notification of a substitute address, fax number, electronic mail address (or such other information), department and officer by that Lender for the purposes of Clause 33.2 (*Addresses*) and paragraph (a)(ii) of Clause 33.6 (*Electronic communication*) and the Agent shall be entitled to treat such person as the person entitled to receive all such notices, communications, information and documents as though that person were that Lender.

#### 27.16 **Credit appraisal by the Lenders**

Without affecting the responsibility of any Obligor for information supplied by it or on its behalf in connection with any Finance Document, each Lender confirms to the Agent and the Arranger that it has been, and will continue to be, solely responsible for making its own independent appraisal and investigation of all risks arising under or in connection with any Finance Document including but not limited to:

- (a) the financial condition, status and nature of each member of the Group;
- (b) the legality, validity, effectiveness, adequacy or enforceability of any Finance Document, the Transaction Security and any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with any Finance Document or the Transaction Security;
- (c) whether that Lender has recourse, and the nature and extent of that recourse, against any Party or any of its respective assets under or in connection with any Finance Document, the Transaction Security, the transactions contemplated by the Finance Documents or any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with any Finance Document or the Transaction Security;
- (d) the adequacy, accuracy or completeness of any information provided by the Agent, any Party or by any other person under or in connection with any Finance Document, the transactions contemplated by any Finance Document or any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with any Finance Document; and



- (e) the right or title of any person in or to, or the value or sufficiency of any part of the Charged Property, the priority of any of the Transaction Security or the existence of any Security affecting the Charged Property.

27.17 **Deduction from amounts payable by the Agent**

If any Party owes an amount to the Agent under the Finance Documents the Agent may, after giving notice to that Party, deduct an amount not exceeding that amount from any payment to that Party which the Agent would otherwise be obliged to make under the Finance Documents and apply the amount deducted in or towards satisfaction of the amount owed. For the purposes of the Finance Documents that Party shall be regarded as having received any amount so deducted.

27.18 **Reliance and engagement letters**

Each Finance Party and Secured Party confirms that each of the Arranger and the Agent has authority to accept on its behalf (and ratifies the acceptance on its behalf of any letters or reports already accepted by the Arranger or Agent) the terms of any reliance letter or engagement letters relating to any reports or letters provided by accountants in connection with the Finance Documents or the transactions contemplated in the Finance Documents and to bind it in respect of those reports or letters and to sign such letters on its behalf and further confirms that it accepts the terms and qualifications set out in such letters.

27.19 **Role of Reference Banks**

- (a) No Reference Bank is under any obligation to provide a quotation or any other information to the Agent.
- (b) No Reference Bank will be liable for any action taken by it under or in connection with any Finance Document, or for any Reference Bank Quotation, unless directly caused by its gross negligence or wilful misconduct.
- (c) No Party (other than the relevant Reference Bank) may take any proceedings against any officer, employee or agent of any Reference Bank in respect of any claim it might have against that Reference Bank or in respect of any act or omission of any kind by that officer, employee or agent in relation to any Finance Document, or to any Reference Bank Quotation, and any officer, employee or agent of each Reference Bank may rely on this Clause 27.19 subject to Clause 1.3 (*Third party rights*) and the provisions of the Third Parties Act.

27.20 **Third party Reference Banks**

A Reference Bank which is not a Party may rely on Clause 27.19 (*Role of Reference Banks*), Clause 37.3 (*Other exceptions*) and Clause 39 (*Confidentiality of Funding Rates and Reference Bank Quotations*) subject to Clause 1.3 (*Third party rights*) and the provisions of the Third Parties Act.

27.21 **The Register**

The Agent, acting for this purpose as a non-fiduciary agent of each US Obligor, shall maintain, or cause to be maintained, a register (the "**Register**") for the recordation of the names and addresses of the Lenders and the principal amount of the Facility owing to each Lender pursuant to the terms hereof from time to time (each, a "**Registered Loan**"). Other than in connection with an assignment by a Lender of all or any part of its Commitment to an Affiliate of such Lender or a Related Fund of such Lender (i) a Registered Loan (and the registered note, if any, evidencing the same) may be assigned or sold in whole or in part

only by registration of such assignment or sale on the Register (and each registered note shall expressly so provide) and (ii) any assignment or sale of all or part of such Registered Loan (and the registered note, if any, evidencing the same) may be effected only by registration of such assignment or sale on the Register, together with the surrender of the registered note, if any, evidencing the same duly endorsed by (or accompanied by a written instrument of assignment or sale duly executed by) the holder of such registered note, whereupon, at the request of the designated assignee(s) or transferee(s), one or more new registered notes in the same aggregate principal amount shall be issued to the designated assignee(s) or transferee(s). The Obligors, the Agent and the Lenders may treat each person whose name is recorded in the Register pursuant to the terms hereof as a Lender hereunder for all purposes of this Agreement, notwithstanding notice to the contrary. The Register shall be available for inspection by the Obligors and, in respect to its own Loans and Commitments, any Lender at any reasonable time and from time to time upon reasonable prior notice. This Clause shall be construed so that the Loans are at all times maintained in "registered form" within the meaning of Sections 163(f), 871(h)(2) and 881(c)(2) of the Code and any related regulations (and any successor provisions).

28. **THE SECURITY AGENT**

28.1 **Security Agent as trustee**

- (a) The Security Agent declares that it holds the Charged Property on trust for the Secured Parties on the terms contained in this Agreement.
- (b) Each of the Finance Parties authorises the Security Agent to perform the duties, obligations and responsibilities and to exercise the rights, powers, authorities and discretions specifically given to the Security Agent under or in connection with the Finance Documents together with any other incidental rights, powers, authorities and discretions.

28.2 **Enforcement Instructions**

- (a) The Security Agent may refrain from enforcing the Transaction Security unless instructed otherwise by the Majority Lenders.
- (b) Subject to the Transaction Security having become enforceable in accordance with its terms, the Majority Lenders may give or refrain from giving instructions to the Security Agent to enforce or refrain from enforcing the Transaction Security as they see fit.
- (c) The Security Agent is entitled to rely on and comply with instructions given in accordance with this Clause 28.2.
- (d) If the Transaction Security is being enforced pursuant to this Clause 28.2, the Security Agent shall enforce the Transaction Security in such manner as the Majority Lenders shall instruct or, in the absence of any such instructions, as the Security Agent considers in its discretion to be appropriate.

28.3 **Instructions**

- (a) The Security Agent shall:
  - (i) subject to paragraphs (d) and (e) below, exercise or refrain from exercising any right, power, authority or discretion vested in it as Security Agent in accordance with any instructions given to it by the Majority Lender; and

- (ii) not be liable for any act (or omission) if it acts (or refrains from acting) in accordance with paragraph (i) above.
- (b) The Security Agent shall be entitled to request instructions, or clarification of any instruction, from the Majority Lenders as to whether, and in what manner, it should exercise or refrain from exercising any right, power, authority or discretion and the Security Agent may refrain from acting unless and until it receives those instructions or that clarification.
- (c) Any instructions given to the Security Agent by the Majority Lenders shall override any conflicting instructions given by any other Parties and will be binding on all Secured Parties.
- (d) Paragraph (a) above shall not apply:
  - (i) where a contrary indication appears in this Agreement;
  - (ii) where this Agreement requires the Security Agent to act in a specified manner or to take a specified action; or
  - (iii) in respect of any provision which protects the Security Agent's own position in its personal capacity as opposed to its role of Security Agent for the Secured Parties including, without limitation, Clauses 28.8 (*No duty to account*) to Clause 28.13 (*Exclusion of liability*), Clause 28.16 (*Confidentiality*) to Clause 28.22 (*Custodians and nominees*) and Clause 28.25 (*Acceptance of title*) to Clause 28.28 (*Disapplication of Trustee Acts*).
- (e) If giving effect to instructions given by the Majority Lenders would (in the Security Agent's opinion) have an effect equivalent to an amendment of this Agreement, the Security Agent shall not act in accordance with those instructions unless consent to it so acting is obtained from each Party (other than the Security Agent) whose consent would have been required in respect of amendment.
- (f) In exercising any discretion to exercise a right, power or authority under the Finance Documents where it has not received any instructions as to the exercise of that discretion, the Security Agent shall do so having regard to the interests of all the Secured Parties.
- (g) The Security Agent may refrain from acting in accordance with any instructions of the Majority Lenders until it has received any indemnification and/or security that it may in its discretion require (which may be greater in extent than that contained in the Finance Documents and which may include payment in advance) for any cost, loss or liability (together with any applicable VAT) which it may incur in complying with those instructions.
- (h) Without prejudice to the remainder of this Clause 28.3, in the absence of instructions, the Security Agent may act (or refrain from acting) as it considers in its discretion to be appropriate.

#### 28.4 **Waiver of rights**

To the extent permitted under applicable law and subject to Clause 28.2 (*Enforcement Instructions*) and Clause 28.29 (*Application of Proceeds*), each of the Secured Parties and the Obligors waives all rights it may otherwise have to require that the Transaction Security be enforced in any particular order or manner or at any particular time or that any amount received or recovered from any person, or by virtue of the enforcement of any of the

Transaction Security or of any other security interest, which is capable of being applied in or towards discharge of any of the Obligations is so applied.

**28.5 Enforcement through Security Agent only**

The Secured Parties shall not have any independent power to enforce, or have recourse to, any of the Transaction Security or to exercise any right, power, authority or discretion arising under the Transaction Security Documents except through the Security Agent

**28.6 Duties of the Security Agent**

- (a) The Security Agent's duties under the Finance Documents are solely mechanical and administrative in nature.
- (b) The Security Agent shall promptly:
  - (i) forward to the Agent a copy of any document received by the Security Agent from any Obligor under any Finance Document; and
  - (ii) forward to a Party the original or a copy of any document which is delivered to the Security Agent for that Party by any other Party.
- (c) Except where a Finance Document specifically provides otherwise, the Security Agent is not obliged to review or check the adequacy, accuracy or completeness of any document it forwards to another Party.
- (d) If the Security Agent receives notice from a Party referring to any Finance Document, describing a Default and stating that the circumstance described is a Default, it shall promptly notify the Finance Parties.
- (e) To the extent that a Party (other than the Security Agent) is required to calculate a Common Currency Amount, the Security Agent shall upon a request by that Party, promptly notify that Party of the relevant Security Agent's Spot Rate of Exchange.
- (f) The Security Agent shall have only those duties, obligations and responsibilities expressly specified in the Finance Documents to which it is expressed to be a party (and no others shall be implied).

**28.7 No fiduciary duties to Obligors**

Nothing in this Agreement constitutes the Security Agent as an agent, trustee or fiduciary of any Obligor.

**28.8 No duty to account**

The Security Agent shall not be bound to account to any other Secured Party for any sum or the profit element of any sum received by it for its own account.

**28.9 Business with the Group**

The Security Agent may accept deposits from, lend money to and generally engage in any kind of banking or other business with any member of the Group.

**28.10 Rights and discretions**

- (a) The Security Agent may:

- (i) rely on any representation, communication, notice or document believed by it to be genuine, correct and appropriately authorised;
- (ii) assume that:
  - (1) any instructions received by it from the Majority Lenders are duly given in accordance with the terms of the Finance Documents;
  - (2) unless it has received notice of revocation, that those instructions have not been revoked; and
  - (3) if it receives any instructions to act in relation to the Transaction Security, that all applicable conditions under the Finance Documents for so acting have been satisfied; and
- (iii) rely on a certificate from any person:
  - (1) as to any matter of fact or circumstance which might reasonably be expected to be within the knowledge of that person; or
  - (2) to the effect that such person approves of any particular dealing, transaction, step, action or thing, as sufficient evidence that that is the case and, in the case of paragraph (1) above, may assume the truth and accuracy of that certificate.
- (b) The Security Agent may assume (unless it has received notice to the contrary in its capacity as security trustee for the Secured Parties) that:
  - (i) no Default has occurred;
  - (ii) any right, power, authority or discretion vested in any Party or any group of creditors has not been exercised; and
  - (iii) any notice made by the Company is made on behalf of and with the consent and knowledge of all the Obligors.
- (c) The Security Agent may engage and pay for the advice or services of any lawyers, accountants, tax advisers, surveyors or other professional advisers or experts.
- (d) Without prejudice to the generality of paragraph (c) above or paragraph (e) below, the Security Agent may at any time engage and pay for the services of any lawyers to act as independent counsel to the Security Agent (and so separate from any lawyers instructed by any other Finance Party) if the Security Agent in its reasonable opinion deems this to be desirable.
- (e) The Security Agent may rely on the advice or services of any lawyers, accountants, tax advisers, surveyors or other professional advisers or experts (whether obtained by the Security Agent or by any other Party) and shall not be liable for any damages, costs or losses to any person, any diminution in value or any liability whatsoever arising as a result of its so relying.
- (f) The Security Agent, any Receiver and any Delegate may act in relation to the Finance Documents and the Charged Property through its officers, employees and agents and shall not:
  - (i) be liable for any error of judgment made by any such person; or

- (ii) be bound to supervise, or be in any way responsible for any loss incurred by reason of misconduct, omission or default on the part of any such person,

unless such error or such loss was directly caused by the Security Agent's, Receiver's or Delegate's gross negligence or wilful misconduct.

- (g) Unless this Agreement expressly specifies otherwise, the Security Agent may disclose to any other Party any information it reasonably believes it has received as security trustee under this Agreement.
- (h) Notwithstanding any other provision of any Finance Document to the contrary, the Security Agent is not obliged to do or omit to do anything if it would, or might in its reasonable opinion, constitute a breach of any law or regulation or a breach of a fiduciary duty or duty of confidentiality.
- (i) Notwithstanding any provision of any Finance Document to the contrary, the Security Agent is not obliged to expend or risk its own funds or otherwise incur any financial liability in the performance of its duties, obligations or responsibilities or the exercise of any right, power, authority or discretion if it has grounds for believing the repayment of such funds or adequate indemnity against, or security for, such risk or liability is not reasonably assured to it.

#### 28.11 **Responsibility for documentation**

None of the Security Agent, any Receiver nor any Delegate is responsible or liable for:

- (a) the adequacy, accuracy or completeness of any information (whether oral or written) supplied by the Security Agent, a Obligor or any other person in or in connection with any Finance Document or the transactions contemplated in the Finance Documents or any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with any Finance Document; or
- (b) the legality, validity, effectiveness, adequacy or enforceability of any Finance Document, the Charged Property or any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with any Finance Document or the Charged Property; or
- (c) any determination as to whether any information provided or to be provided to any Secured Party is non-public information the use of which may be regulated or prohibited by applicable law or regulation relating to insider dealing or otherwise.

#### 28.12 **No duty to monitor**

The Security Agent shall not be bound to enquire:

- (a) whether or not any Default has occurred;
- (b) as to the performance, default or any breach by any Party of its obligations under any Finance Document; or
- (c) whether any other event specified in any Finance Document has occurred.

28.13 **Exclusion of liability**

- (a) Without limiting paragraph (b) below (and without prejudice to any other provision of any Finance Document excluding or limiting the liability of the Security Agent, any Receiver or Delegate), none of the Security Agent, any Receiver nor any Delegate will be liable for:
- (i) any damages, costs or losses to any person, any diminution in value, or any liability whatsoever arising as a result of taking or not taking any action under or in connection with any Finance Document or the Charged Property unless directly caused by its gross negligence or wilful misconduct;
  - (ii) exercising or not exercising any right, power, authority or discretion given to it by, or in connection with, any Finance Document, the Charged Property or any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with, any Finance Document or the Charged Property;
  - (iii) any shortfall which arises on the enforcement or realisation of the Charged Property; or
  - (iv) without prejudice to the generality of paragraphs (i) to (iii) above, any damages, costs, losses, any diminution in value or any liability whatsoever arising as a result of:
    - (1) any act, event or circumstance not reasonably within its control; or
    - (2) the general risks of investment in, or the holding of assets in, any jurisdiction,including (in each case and without limitation) such damages, costs, losses, diminution in value or liability arising as a result of: nationalisation, expropriation or other governmental actions; any regulation, currency restriction, devaluation or fluctuation; market conditions affecting the execution or settlement of transactions or the value of assets; breakdown, failure or malfunction of any third party transport, telecommunications, computer services or systems; natural disasters or acts of God; war, terrorism, insurrection or revolution; or strikes or industrial action.
- (b) No Party (other than the Security Agent, that Receiver or that Delegate (as applicable)) may take any proceedings against any officer, employee or agent of the Security Agent, a Receiver or a Delegate in respect of any claim it might have against the Security Agent, a Receiver or a Delegate or in respect of any act or omission of any kind by that officer, employee or agent in relation to any Finance Document or any Charged Property and any officer, employee or agent of the Security Agent, a Receiver or a Delegate may rely on this Clause subject to Clause 1.3 (*Third party rights*) and the provisions of the Third Parties Act.
- (c) Nothing in this Agreement shall oblige the Security Agent to carry out:
- (1) any "know your customer" or other checks in relation to any person; or
  - (2) any check on the extent to which any transaction contemplated by this Agreement might be unlawful for any Finance Party,

on behalf of any Finance Party and each Finance Party confirms to the Security Agent that it is solely responsible for any such checks it is required to carry out and that it may not rely on any statement in relation to such checks made by the Security Agent.

- (d) Without prejudice to any provision of any Finance Document excluding or limiting the liability of the Security Agent, any Receiver or Delegate, any liability of the Security Agent, any Receiver or Delegate arising under or in connection with any Finance Document or the Charged Property shall be limited to the amount of actual loss which has been finally judicially determined to have been suffered (as determined by reference to the date of default of the Security Agent, Receiver or Delegate (as the case may be) or, if later, the date on which the loss arises as a result of such default) but without reference to any special conditions or circumstances known to the Security Agent, Receiver or Delegate (as the case may be) at any time which increase the amount of that loss. In no event shall the Security Agent, any Receiver or Delegate be liable for any loss of profits, goodwill, reputation, business opportunity or anticipated saving, or for special, punitive, indirect or consequential damages, whether or not the Security Agent, Receiver or Delegate (as the case may be) has been advised of the possibility of such loss or damages.

**28.14 Finance Parties' indemnity to the Security Agent**

- (a) Each Finance Party shall (in the proportion that the Obligations due to it bear to the aggregate of the Obligations due to all the Finance Parties for the time being (or, if the Obligations due to the Finance Parties are zero, immediately prior to their being reduced to zero)), indemnify the Security Agent and every Receiver and every Delegate, within three Business Days of demand, against any cost, loss or liability incurred by any of them (otherwise than by reason of the relevant Security Agent's, Receiver's or Delegate's gross negligence or wilful misconduct) in acting as Security Agent, Receiver or Delegate under, or exercising any authority conferred under, the Finance Documents (unless the relevant Security Agent, Receiver or Delegate has been reimbursed by a Obligor pursuant to a Finance Document).
- (b) Subject to paragraph (c) below, the Company shall immediately on demand reimburse any Finance Party for any payment that Finance Party makes to the Security Agent pursuant to paragraph (a) above.
- (c) Paragraph (b) above shall not apply to the extent that the indemnity payment in respect of which the Finance Party claims reimbursement relates to a liability of the Security Agent to a Obligor.

**28.15 Resignation of the Security Agent**

- (a) The Security Agent may resign and appoint one of its Affiliates as successor by giving notice to the Finance Parties and the Company.
- (b) Alternatively the Security Agent may resign by giving 30 days' notice to the Finance Parties and the Company, in which case the Majority Lenders may appoint a successor Security Agent.
- (c) If the Majority Lenders has not appointed a successor Security Agent in accordance with paragraph (b) above within 20 days after notice of resignation was given, the retiring Security Agent (after consultation with the Agent) may appoint a successor Security Agent.



- (d) The retiring Security Agent shall, at its own cost, make available to the successor Security Agent such documents and records and provide such assistance as the successor Security Agent may reasonably request for the purposes of performing its functions as Security Agent under the Finance Documents.
- (e) The Security Agent's resignation notice shall only take effect upon:
  - (i) the appointment of a successor; and
  - (ii) the transfer of all the Charged Property to that successor.
- (f) Upon the appointment of a successor, the retiring Security Agent shall be discharged from any further obligation in respect of the Finance Documents (other than its obligations under paragraph (b) of Clause 28.26 (*Winding up of trust*) and paragraph (d) above) but shall remain entitled to the benefit of this Clause 28 and Clause 16.4 (*Indemnity to the Security Agent*) (and any Security Agent fees for the account of the retiring Security Agent shall cease to accrue from (and shall be payable on) that date). Any successor and each of the other Parties shall have the same rights and obligations amongst themselves as they would have had if that successor had been an original Party.
- (g) The Majority Lenders may, by notice to the Security Agent, require it to resign in accordance with paragraph (b) above. In this event, the Security Agent shall resign in accordance with paragraph (b) above.

**28.16 Confidentiality**

- (a) In acting as trustee for the Secured Parties, the Security Agent shall be regarded as acting through its trustee division which shall be treated as a separate entity from any other of its divisions or departments.
- (b) If information is received by another division or department of the Security Agent, it may be treated as confidential to that division or department and the Security Agent shall not be deemed to have notice of it.
- (c) Notwithstanding any other provision of any Finance Document to the contrary, the Security Agent is not obliged to disclose to any other person (i) any confidential information or (ii) any other information if the disclosure would, or might in its reasonable opinion, constitute a breach of any law or regulation or a breach of a fiduciary duty.

**28.17 Information from the Company**

The Company shall supply the Security Agent with any information that the Security Agent may reasonably specify as being necessary or desirable to enable the Security Agent to perform its functions as Security Agent.

**28.18 Credit appraisal by the Secured Parties**

Without affecting the responsibility of any Obligor for information supplied by it or on its behalf in connection with any Finance Document, each Secured Party confirms to the Security Agent that it has been, and will continue to be, solely responsible for making its own independent appraisal and investigation of all risks arising under or in connection with any Finance Document including but not limited to:

- (a) the financial condition, status and nature of each member of the Group;

- (b) the legality, validity, effectiveness, adequacy or enforceability of any Finance Document, the Charged Property and any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with any Finance Document or the Charged Property;
- (c) whether that Secured Party has recourse, and the nature and extent of that recourse, against any Party or any of its respective assets under or in connection with any Finance Document, the Charged Property, the transactions contemplated by the Finance Documents or any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with any Finance Document or the Charged Property;
- (d) the adequacy, accuracy or completeness of any information provided by the Security Agent, any Party or by any other person under or in connection with any Finance Document, the transactions contemplated by any Finance Document or any other agreement, arrangement or document entered into, made or executed in anticipation of, under or in connection with any Finance Document; and
- (e) the right or title of any person in or to, or the value or sufficiency of any part of the Charged Property, the priority of any of the Transaction Security or the existence of any Security affecting the Charged Property.

**28.19 Reliance and engagement letters**

The Security Agent may obtain and rely on any certificate or report from any Obligor's auditor and may enter into any reliance letter or engagement letter relating to that certificate or report on such terms as it may consider appropriate (including, without limitation, restrictions on the auditor's liability and the extent to which that certificate or report may be relied on or disclosed).

**28.20 No responsibility to perfect Transaction Security**

The Security Agent shall not be liable for any failure to:

- (a) require the deposit with it of any deed or document certifying, representing or constituting the title of any Obligor to any of the Charged Property;
- (b) obtain any licence, consent or other authority for the execution, delivery, legality, validity, enforceability or admissibility in evidence of any Finance Document or the Transaction Security;
- (c) register, file or record or otherwise protect any of the Transaction Security (or the priority of any of the Transaction Security) under any law or regulation or to give notice to any person of the execution of any Finance Document or of the Transaction Security;
- (d) take, or to require any Obligor to take, any step to perfect its title to any of the Charged Property or to render the Transaction Security effective or to secure the creation of any ancillary Security under any law or regulation; or
- (e) require any further assurance in relation to any Transaction Security Document.

**28.21 Insurance by Security Agent**

- (a) The Security Agent shall not be obliged:

- (i) to insure any of the Charged Property;
- (ii) to require any other person to maintain any insurance; or
- (iii) to verify any obligation to arrange or maintain insurance contained in any Finance Document,

and the Security Agent shall not be liable for any damages, costs or losses to any person as a result of the lack of, or inadequacy of, any such insurance.

- (b) Where the Security Agent is named on any insurance policy as an insured party, it shall not be liable for any damages, costs or losses to any person as a result of its failure to notify the insurers of any material fact relating to the risk assumed by such insurers or any other information of any kind.

#### 28.22 **Custodians and nominees**

The Security Agent may appoint and pay any person to act as a custodian or nominee on any terms in relation to any asset of the trust as the Security Agent may determine, including for the purpose of depositing with a custodian this Agreement or any document relating to the trust created under this Agreement and the Security Agent shall not be responsible for any loss, liability, expense, demand, cost, claim or proceedings incurred by reason of the misconduct, omission or default on the part of any person appointed by it under this Agreement or be bound to supervise the proceedings or acts of any person.

#### 28.23 **Delegation by the Security Agent**

- (a) Each of the Security Agent, any Receiver and any Delegate may, at any time, delegate by power of attorney or otherwise to any person for any period, all or any right, power, authority or discretion vested in it in its capacity as such.
- (b) That delegation may be made upon any terms and conditions (including the power to sub-delegate) and subject to any restrictions that the Security Agent, that Receiver or that Delegate (as the case may be) may, in its discretion, think fit in the interests of the Secured Parties.
- (c) No Security Agent, Receiver or Delegate shall be bound to supervise, or be in any way responsible for any damages, costs or losses incurred by reason of any misconduct, omission or default on the part of, any such delegate or sub-delegate.

#### 28.24 **Additional Security Agents**

- (a) The Security Agent may at any time appoint (and subsequently remove) any person to act as a separate trustee or as a co-trustee jointly with it:
  - (i) if it considers that appointment to be in the interests of the Secured Parties;
  - (ii) for the purposes of conforming to any legal requirement, restriction or condition which the Security Agent deems to be relevant; or
  - (iii) for obtaining or enforcing any judgment in any jurisdiction,and the Security Agent shall give prior notice to the Company and the Finance Parties of that appointment.
- (b) Any person so appointed shall have the rights, powers, authorities and discretions (not exceeding those given to the Security Agent under or in connection with the

Finance Documents) and the duties, obligations and responsibilities that are given or imposed by the instrument of appointment.

- (c) The remuneration that the Security Agent may pay to that person, and any costs and expenses (together with any applicable VAT) incurred by that person in performing its functions pursuant to that appointment shall, for the purposes of this Agreement, be treated as costs and expenses incurred by the Security Agent.

28.25 **Acceptance of title**

The Security Agent shall be entitled to accept without enquiry, and shall not be obliged to investigate, any right and title that any Obligor may have to any of the Charged Property and shall not be liable for, or bound to require any Obligor to remedy, any defect in its right or title.

28.26 **Winding up of trust**

If the Security Agent, with the approval of the Agent, determines that:

- (a) all of the Obligations and all other obligations secured by the Security Documents have been fully and finally discharged; and
- (b) no Secured Party is under any commitment, obligation or liability (actual or contingent) to make advances or provide other financial accommodation to any Obligor pursuant to the Finance Documents,

then:

- (i) the trusts set out in this Agreement shall be wound up and the Security Agent shall release, without recourse or warranty, all of the Transaction Security and the rights of the Security Agent under each of the Security Documents; and
- (ii) any Security Agent which has resigned pursuant to Clause 28.15 (*Resignation of the Security Agent*) shall release, without recourse or warranty, all of its rights under each Security Document.

28.27 **Powers supplemental to Trustee Acts**

The rights, powers, authorities and discretions given to the Security Agent under or in connection with the Finance Documents shall be supplemental to the Trustee Act 1925 and the Trustee Act 2000 and in addition to any which may be vested in the Security Agent by law or regulation or otherwise.

28.28 **Disapplication of Trustee Acts**

Section 1 of the Trustee Act 2000 shall not apply to the duties of the Security Agent in relation to the trusts constituted by this Agreement. Where there are any inconsistencies between the Trustee Act 1925 or the Trustee Act 2000 and the provisions of this Agreement, the provisions of this Agreement shall, to the extent permitted by law and regulation, prevail and, in the case of any inconsistency with the Trustee Act 2000, the provisions of this Agreement shall constitute a restriction or exclusion for the purposes of that Act.

28.29 **Application of proceeds**

Subject to Clause 28.30 (*Prospective liabilities*), all amounts from time to time received or recovered by the Security Agent pursuant to the terms of any Finance Document or in connection with the realisation or enforcement of all or any part of the Transaction Security (for the purposes of this Clause 28, the "**Recoveries**") shall be held by the Security Agent on trust to apply them at any time as the Security Agent (in its discretion) sees fit, to the extent permitted by applicable law (and subject to the provisions of this Clause 28), in the following order of priority:

- (a) in discharging any sums owing to the Security Agent, any Receiver or any Delegate;
- (b) in discharging all costs and expenses incurred by any Finance Party in connection with any realisation or enforcement of the Transaction Security taken in accordance with the terms of this Agreement;
- (c) in payment or distribution to the Agent on its own behalf and on behalf of the other Finance Parties for application towards the discharge of the Obligations in accordance with Clause 31 (*Payment mechanics*);
- (d) if none of the Obligors are under any further actual or contingent liability under any Finance Document, in payment or distribution to any person to whom the Security Agent is obliged to pay or distribute in priority to any Obligor; and
- (e) the balance, if any, in payment or distribution to the relevant Obligor.

28.30 **Prospective liabilities**

Following (i) a Declared Default or (ii) the enforcement of any Transaction Security, the Security Agent may, in its discretion hold any amount of the Recoveries in one or more interest bearing suspense or impersonal accounts in the name of the Security Agent with such financial institution (including itself) as the Security Agent shall think fit (the interest being credited to the relevant account) for so long as the Security Agent shall think fit for later application under Clause 28.29 (*Application of Proceeds*) in respect of:

- (a) any sum to any Security Agent, any Receiver or any Delegate; and
- (b) any part of the Obligations,

that the Security Agent reasonably considers, in each case, might become due or owing at any time in the future.

28.31 **Investment of Cash Proceeds**

Prior to the application of the proceeds of the Charged Property in accordance with Clause 28.29 (*Application of proceeds*) the Security Agent may, in its discretion, hold all or part of any Cash Proceeds in one or more interest bearing suspense or impersonal accounts in the name of the Security Agent with such financial institution (including itself) and for so long as the Security Agent shall think fit (the interest being credited to the relevant account) pending the application from time to time of those monies in the Security Agent's discretion in accordance with the provisions of this Clause 28.

28.32 **Currency conversion**

For the purpose of, or pending the discharge of, any of the Obligations the Security Agent may convert any moneys received or recovered by the Security Agent (including, without

limitation, any Cash Proceeds) from one currency to another, at the Security Agent's Spot Rate of Exchange.

28.33 **Permitted Deductions**

The Security Agent shall be entitled, in its discretion, (a) to set aside by way of reserve amounts required to meet and (b) to make and pay, any deductions and withholdings (on account of Taxes or otherwise) which it is or may be required by any law or regulation to make from any distribution or payment made by it under this Agreement, and to pay all Taxes which may be assessed against it in respect of any of the Charged Property, or as a consequence of performing its duties or exercising its rights, powers, authorities and discretions, or by virtue of its capacity as Security Agent under any of the Finance Documents or otherwise (other than in connection with its remuneration for performing its duties under this Agreement).

28.34 **Good Discharge**

- (a) Any distribution or payment to be made in respect of the Obligations by the Security Agent may be made to the Agent on behalf of the Finance Parties.
- (b) Any distribution or payment made as described in paragraph (a) above shall be a good discharge to the extent of that payment by the Security Agent.
- (c) The Security Agent is under no obligation to make the payments to the Agent under paragraph (a) above in the same currency as that in which the Obligations owing to the relevant Finance Party are denominated pursuant to the relevant Finance Document.

28.35 **Calculation of Amounts**

For the purpose of calculating any person's share of any amount payable to or by it, the Security Agent shall be entitled to:

- (a) notionally convert the Obligations owed to any person into a common base currency (decided in its discretion by the Security Agent), that notional conversion to be made at the spot rate at which the Security Agent is able to purchase the notional base currency with the actual currency of the Obligations owed to that person at the time at which that calculation is to be made; and
- (b) assume that all amounts received or recovered as a result of the enforcement or realisation of the Charged Property are applied in discharge of the Obligations in accordance with the terms of the Finance Documents under which those Obligations have arisen.

29. **CONDUCT OF BUSINESS BY THE FINANCE PARTIES**

No provision of any Finance Document will:

- (a) interfere with the right of any Finance Party to arrange its affairs (tax or otherwise) in whatever manner it thinks fit;
- (b) oblige any Finance Party to investigate or claim any credit, relief, remission or repayment available to it or the extent, order and manner of any claim; or
- (c) oblige any Finance Party to disclose any information relating to its affairs (tax or otherwise) or any computations in respect of Tax.

30. **SHARING AMONG THE FINANCE PARTIES**

30.1 **Payments to Finance Parties**

If a Finance Party (a "**Recovering Finance Party**") receives or recovers any amount from an Obligor other than in accordance with Clause 31 (*Payment mechanics*) (a "**Recovered Amount**") and applies that amount to a payment due under the Finance Documents then:

- (a) the Recovering Finance Party shall, within three Business Days, notify details of the receipt or recovery, to the Agent;
- (b) the Agent shall determine whether the receipt or recovery is in excess of the amount the Recovering Finance Party would have been paid had the receipt or recovery been received or made by the Agent and distributed in accordance with Clause 31 (*Payment mechanics*), without taking account of any Tax which would be imposed on the Agent in relation to the receipt, recovery or distribution; and
- (c) the Recovering Finance Party shall, within three Business Days of demand by the Agent, pay to the Agent an amount (the "**Sharing Payment**") equal to such receipt or recovery less any amount which the Agent determines may be retained by the Recovering Finance Party as its share of any payment to be made, in accordance with Clause 31.6 (*Partial payments*).

30.2 **Redistribution of payments**

The Agent shall treat the Sharing Payment as if it had been paid by the relevant Obligor and distribute it between the Finance Parties (other than the Recovering Finance Party) (the "**Sharing Finance Parties**") in accordance with Clause 31.6 (*Partial payments*) towards the obligations of that Obligor to the Sharing Finance Parties.

30.3 **Recovering Finance Party's rights**

On a distribution by the Agent under Clause 30.2 (*Redistribution of payments*), of a payment received by a Recovering Finance Party from an Obligor, as between the relevant Obligor and the Recovering Finance Party, an amount of the Recovered Amount equal to the Sharing Payment will be treated as not having been paid by that Obligor.

30.4 **Reversal of redistribution**

If any part of the Sharing Payment received or recovered by a Recovering Finance Party becomes repayable and is repaid by that Recovering Finance Party, then:

- (a) each Sharing Finance Party shall, upon request of the Agent, pay to the Agent for the account of that Recovering Finance Party an amount equal to the appropriate part of its share of the Sharing Payment (together with an amount as is necessary to reimburse that Recovering Finance Party for its proportion of any interest on the Sharing Payment which that Recovering Finance Party is required to pay) (the "**Redistributed Amount**"); and
- (b) as between the relevant Obligor and each relevant Sharing Finance Party, an amount equal to the relevant Redistributed Amount will be treated as not having been paid by that Obligor.

30.5 **Exceptions**

- (a) This Clause 30 shall not apply to the extent that the Recovering Finance Party would not, after making any payment pursuant to this Clause, have a valid and enforceable claim against the relevant Obligor.
- (b) A Recovering Finance Party is not obliged to share with any other Finance Party any amount which the Recovering Finance Party has received or recovered as a result of taking legal or arbitration proceedings, if:
  - (i) it notified the other Finance Party of the legal or arbitration proceedings; and
  - (ii) the other Finance Party had an opportunity to participate in those legal or arbitration proceedings but did not do so as soon as reasonably practicable having received notice and did not take separate legal or arbitration proceedings.



**SECTION 11**

**ADMINISTRATION**

**31. PAYMENT MECHANICS**

**31.1 Payments to the Agent**

- (a) On each date on which an Obligor or a Lender is required to make a payment under a Finance Document, that Obligor or Lender shall make the same available to the Agent (unless a contrary indication appears in a Finance Document) for value on the due date at the time and in such funds specified by the Agent as being customary at the time for settlement of transactions in the relevant currency in the place of payment.
- (b) Payment shall be made to such account in the principal financial centre of the country of that currency and with such bank as the Agent, in each case, specifies.

**31.2 Distributions by the Agent**

Each payment received by the Agent under the Finance Documents for another Party shall, subject to Clause 31.3 (*Distributions to an Obligor*) and Clause 31.4 (*Clawback and pre-funding*) be made available by the Agent as soon as practicable after receipt to the Party entitled to receive payment in accordance with this Agreement (in the case of a Lender, for the account of its Facility Office), to such account as that Party may notify to the Agent by not less than five Business Days' notice with a bank specified by that Party in the principal financial centre of the country of that currency.

**31.3 Distributions to an Obligor**

The Agent may (with the consent of the Obligor or in accordance with Clause 32 (*Set-Off*)) apply any amount received by it for that Obligor in or towards payment (on the date and in the currency and funds of receipt) of any amount due from that Obligor under the Finance Documents or in or towards purchase of any amount of any currency to be so applied.

**31.4 Clawback and pre-funding**

- (a) Where a sum is to be paid to the Agent under the Finance Documents for another Party, the Agent is not obliged to pay that sum to that other Party (or to enter into or perform any related exchange contract) until it has been able to establish to its satisfaction that it has actually received that sum.
- (b) Unless paragraph (c) below applies, if the Agent pays an amount to another Party and it proves to be the case that the Agent had not actually received that amount, then the Party to whom that amount (or the proceeds of any related exchange contract) was paid by the Agent shall on demand refund the same to the Agent together with interest on that amount from the date of payment to the date of receipt by the Agent, calculated by the Agent to reflect its cost of funds.
- (c) If the Agent has notified the Lenders that it is willing to make available amounts for the account of a Borrower before receiving funds from the Lenders then if and to the extent that the Agent does so but it proves to be the case that it does not then receive funds from a Lender in respect of a sum which it paid to a Borrower:

- (i) the Agent shall notify the Company of that Lender's identity and the Borrower to whom that sum was made available shall on demand refund it to the Agent; and
- (ii) the Lender by whom those funds should have been made available or, if that Lender fails to do so, the Borrower to whom that sum was made available, shall on demand pay to the Agent the amount (as certified by the Agent) which will indemnify the Agent against any funding cost incurred by it as a result of paying out that sum before receiving those funds from that Lender.

### 31.5 Impaired Agent

- (a) If, at any time, the Agent becomes an Impaired Agent, an Obligor or a Lender which is required to make a payment under the Finance Documents to the Agent in accordance with Clause 31.1 (*Payments to the Agent*) may instead either:
  - (i) pay that amount direct to the required recipient(s); or
  - (ii) if in its absolute discretion it considers that it is not reasonably practicable to pay that amount direct to the required recipient(s), pay that amount or the relevant part of that amount to an interest-bearing account held with an Acceptable Bank within the meaning of paragraph (a) of the definition of "Acceptable Bank" and in relation to which no Finance Party Insolvency Event has occurred and is continuing, in the name of the Obligor or the Lender making the payment (the "**Paying Party**") and designated as a trust account for the benefit of the Party or Parties beneficially entitled to that payment under the Finance Documents (the "**Recipient Party**" or "**Recipient Parties**").

In each case such payments must be made on the due date for payment under the Finance Documents.

- (b) All interest accrued on the amount standing to the credit of the trust account shall be for the benefit of the Recipient Party or the Recipient Parties *pro rata* to their respective entitlements.
- (c) A Party which has made a payment in accordance with this Clause 31.5 shall be discharged of the relevant payment obligation under the Finance Documents and shall not take any credit risk with respect to the amounts standing to the credit of the trust account.
- (d) Promptly upon the appointment of a successor Agent in accordance with Clause 27.13 (*Replacement of the Agent*), each Paying Party shall (other than to the extent that that Party has given an instruction pursuant to paragraph (e) below) give all requisite instructions to the bank with whom the trust account is held to transfer the amount (together with any accrued interest) to the successor Agent for distribution to the relevant Recipient Party or Recipient Parties in accordance with Clause 31.2 (*Distributions by the Agent*).
- (e) A Paying Party shall, promptly upon request by a Recipient Party and to the extent:
  - (i) that it has not given an instruction pursuant to paragraph (d) above; and
  - (ii) that it has been provided with the necessary information by that Recipient Party,

give all requisite instructions to the bank with whom the trust account is held to transfer the relevant amount (together with any accrued interest) to that Recipient Party.

31.6 **Partial payments**

- (a) If the Agent receives a payment for application against amounts due in respect of any Finance Documents that is insufficient to discharge all the amounts then due and payable by an Obligor under those Finance Documents, the Agent shall apply that payment towards the obligations of that Obligor under those Finance Documents in the following order:
- (i) **first**, in or towards payment *pro rata* of any unpaid amount owing to the Agent or the Security Agent under the Finance Documents;
  - (ii) **secondly**, in or towards payment *pro rata* of any accrued interest, fee or commission due but unpaid under those Finance Documents;
  - (iii) **thirdly**, in or towards payment *pro rata* of any principal due but unpaid under those Finance Documents; and
  - (iv) **fourthly**, in or towards payment *pro rata* of any other sum due but unpaid under the Finance Documents.
- (b) The Agent shall, if so directed by the Majority Lenders, vary the order set out in paragraphs (a)(ii) to (a)(iv) above.
- (c) Paragraphs (a) and (b) above will override any appropriation made by an Obligor.

31.7 **Set-off by Obligors**

All payments to be made by an Obligor under the Finance Documents shall be calculated and be made without (and free and clear of any deduction for) set-off or counterclaim.

31.8 **Business Days**

- (a) Any payment under the Finance Documents which is due to be made on a day that is not a Business Day shall be made on the next Business Day in the same calendar month (if there is one) or the preceding Business Day (if there is not).
- (b) During any extension of the due date for payment of any principal or Unpaid Sum under this Agreement interest is payable on the principal or Unpaid Sum at the rate payable on the original due date.

31.9 **Currency of account**

- (a) Subject to paragraphs (b) to (e) below, the Base Currency is the currency of account and payment for any sum due from an Obligor under any Finance Document.
- (b) A repayment of a Utilisation or Unpaid Sum or a part of a Utilisation or Unpaid Sum shall be made in the currency in which that Utilisation or Unpaid Sum is denominated, pursuant to this Agreement, on its due date.
- (c) Each payment of interest shall be made in the currency in which the sum in respect of which the interest is payable was denominated, pursuant to this Agreement, when that interest accrued.

(d) Each payment in respect of costs, expenses or Taxes shall be made in the currency in which the costs, expenses or Taxes are incurred.

(e) Any amount expressed to be payable in a currency other than the Base Currency shall be paid in that other currency.

**31.10 Change of currency**

(a) Unless otherwise prohibited by law, if more than one currency or currency unit are at the same time recognised by the central bank of any country as the lawful currency of that country, then:

(i) any reference in the Finance Documents to, and any obligations arising under the Finance Documents in, the currency of that country shall be translated into, or paid in, the currency or currency unit of that country designated by the Agent (after consultation with the Company); and

(ii) any translation from one currency or currency unit to another shall be at the official rate of exchange recognised by the central bank for the conversion of that currency or currency unit into the other, rounded up or down by the Agent (acting reasonably).

(b) If a change in any currency of a country occurs, this Agreement will, to the extent the Agent (acting reasonably and after consultation with the Company) specifies to be necessary, be amended to comply with any generally accepted conventions and market practice in the Relevant Market and otherwise to reflect the change in currency.

**31.11 Disruption to payment systems etc.**

If either the Agent determines (in its discretion) that a Disruption Event has occurred or the Agent is notified by the Company that a Disruption Event has occurred:

(a) the Agent may, and shall if requested to do so by the Company, consult with the Company with a view to agreeing with the Company such changes to the operation or administration of the Facilities as the Agent may deem necessary in the circumstances;

(b) the Agent shall not be obliged to consult with the Company in relation to any changes mentioned in paragraph (a) above if, in its opinion, it is not practicable to do so in the circumstances and, in any event, shall have no obligation to agree to such changes;

(c) the Agent may consult with the Finance Parties in relation to any changes mentioned in paragraph (a) above but shall not be obliged to do so if, in its opinion, it is not practicable to do so in the circumstances;

(d) any such changes agreed upon by the Agent and the Company shall (whether or not it is finally determined that a Disruption Event has occurred) be binding upon the Parties as an amendment to (or, as the case may be, waiver of) the terms of the Finance Documents notwithstanding the provisions of Clause 37 (*Amendments and Waivers*);

(e) the Agent shall not be liable for any damages, costs or losses to any person, any diminution in value or any liability whatsoever (including, without limitation for negligence, gross negligence or any other category of liability whatsoever but not

including any claim based on the fraud of the Agent) arising as a result of its taking, or failing to take, any actions pursuant to or in connection with this Clause 31.11; and

(f) the Agent shall notify the Finance Parties of all changes agreed pursuant to paragraph (d) above.

32. **SET-OFF**

A Finance Party may, at any time following an Event of Default which is continuing, set off any matured obligation due from an Obligor under the Finance Documents (to the extent beneficially owned by that Finance Party) against any matured obligation owed by that Finance Party to that Obligor, regardless of the place of payment, booking branch or currency of either obligation. If the obligations are in different currencies, the Finance Party may convert either obligation at a market rate of exchange in its usual course of business for the purpose of the set-off. No security interest is created by this Clause 32.

33. **NOTICES**

33.1 **Communications in writing**

Any communication to be made under or in connection with the Finance Documents shall be made in writing and, unless otherwise stated, may be made by fax or letter.

33.2 **Addresses**

The address and fax number (and the department or officer, if any, for whose attention the communication is to be made) of each Party for any communication or document to be made or delivered under or in connection with the Finance Documents is:

- (a) in the case of the Company, that identified with its name below;
- (b) in the case of each Lender or any other Obligor, that notified in writing to the Agent on or prior to the date on which it becomes a Party; and
- (c) in the case of the Agent or the Security Agent, that identified with its name below,

or any substitute address, fax number or department or officer as the Party may notify to the Agent (or the Agent may notify to the other Parties, if a change is made by the Agent) by not less than five Business Days' notice.

33.3 **Delivery**

- (a) Any communication or document made or delivered by one person to another under or in connection with the Finance Documents will only be effective:
  - (i) if by way of fax, when received in legible form; or
  - (ii) if by way of letter, when it has been left at the relevant address or five Business Days after being deposited in the post postage prepaid in an envelope addressed to it at that address,and, if a particular department or officer is specified as part of its address details provided under Clause 33.2 (*Addresses*), if addressed to that department or officer.
- (b) Any communication or document to be made or delivered to the Agent or the Security Agent will be effective only when actually received by the Agent or Security

Agent and then only if it is expressly marked for the attention of the department or officer identified with the Agent's or Security Agent's signature below (or any substitute department or officer as the Agent or Security Agent shall specify for this purpose).

- (c) All notices from or to an Obligor shall be sent through the Agent.
- (d) Any communication or document made or delivered to the Company in accordance with this Clause 33.3 will be deemed to have been made or delivered to each of the Obligors or any other member of the Group party to a Finance Document.
- (e) Any communication or document which becomes effective, in accordance with paragraphs (a) to (d) above, after 5:00 pm in the place of receipt shall be deemed only to become effective on the following day.

**33.4 Notification of address and fax number**

Promptly upon changing its address or fax number, the Agent shall notify the other Parties.

**33.5 Communication when Agent is Impaired Agent**

If the Agent is an Impaired Agent the Parties may, instead of communicating with each other through the Agent, communicate with each other directly and (while the Agent is an Impaired Agent) all the provisions of the Finance Documents which require communications to be made or notices to be given to or by the Agent shall be varied so that communications may be made and notices given to or by the relevant Parties directly. This provision shall not operate after a replacement Agent has been appointed.

**33.6 Electronic communication**

- (a) Any communication to be made between any two Parties under or in connection with the Finance Documents may be made by electronic mail or other electronic means (including, without limitation, by way of posting to a secure website) if those two Parties:
  - (i) notify each other in writing of their electronic mail address and/or any other information required to enable the transmission of information by that means; and
  - (ii) notify each other of any change to their address or any other such information supplied by them by not less than five Business Days' notice.
- (b) Any such electronic communication as specified in paragraph (a) above to be made between an Obligor and a Finance Party may only be made in that way to the extent that those two Parties agree that, unless and until notified to the contrary, this is to be an accepted form of communication.
- (c) Any such electronic communication as specified in paragraph (a) above made between any two Parties will be effective only when actually received (or made available) in readable form and in the case of any electronic communication made by a Party to the Agent or the Security Agent only if it is addressed in such a manner as the Agent or Security Agent shall specify for this purpose.
- (d) Any electronic communication which becomes effective, in accordance with paragraph (c) above, after 5:00 pm in the place in which the Party to whom the

relevant communication is sent or made available has its address for the purpose of this Agreement shall be deemed only to become effective on the following day.

- (e) Any reference in a Finance Document to a communication being sent or received shall be construed to include that communication being made available in accordance with this Clause 33.6.

### 33.7 Use of websites

- (a) The Company may satisfy its obligation under this Agreement to deliver any information in relation to those Lenders (the "**Website Lenders**") who accept this method of communication by posting this information onto an electronic website designated by the Company and the Agent (the "**Designated Website**") if:
- (i) the Agent expressly agrees (after consultation with each of the Lenders) that it will accept communication of the information by this method;
  - (ii) both the Company and the Agent are aware of the address of and any relevant password specifications for the Designated Website; and
  - (iii) the information is in a printable format or otherwise capable of being downloaded by the relevant Website Lender and is in a format previously agreed between the Company and the Agent.

If any Lender (a "**Paper Form Lender**") does not agree to the delivery of information electronically then the Agent shall notify the Company accordingly and the Company shall at its own cost supply the information to the Agent (in sufficient copies for each Paper Form Lender) in paper form. In any event the Company shall at its own cost supply the Agent with at least one copy in paper form of any information required to be provided by it.

- (b) The Agent shall supply each Website Lender with the address of and any relevant password specifications for the Designated Website following designation of that website by the Company and the Agent.
- (c) The Company shall promptly upon becoming aware of its occurrence notify the Agent if:
- (i) the Designated Website cannot be accessed due to technical failure;
  - (ii) the password specifications for the Designated Website change;
  - (iii) any new information which is required to be provided under this Agreement is posted onto the Designated Website;
  - (iv) any existing information which has been provided under this Agreement and posted onto the Designated Website is amended; or
  - (v) the Company becomes aware that the Designated Website or any information posted onto the Designated Website is or has been infected by any electronic virus or similar software.

If the Company notifies the Agent under sub-paragraph (c)(i) or sub-paragraph (c)(v) above, all information to be provided by the Company under this Agreement after the date of that notice shall be supplied in paper form unless and until the

Agent and each Website Lender is satisfied that the circumstances giving rise to the notification are no longer continuing.

- (d) Any Website Lender may request, through the Agent, one paper copy of any information required to be provided under this Agreement which is posted onto the Designated Website. The Company shall at its own cost comply with any such request within ten Business Days.

**33.8 English language**

- (a) Any notice given under or in connection with any Finance Document must be in English.
- (b) All other documents provided under or in connection with any Finance Document must be:
  - (i) in English; or
  - (ii) if not in English, and if so required by the Agent, accompanied by a certified English translation and, in this case, the English translation will prevail unless the document is a constitutional, statutory or other official document.

**34. CALCULATIONS AND CERTIFICATES**

**34.1 Accounts**

In any litigation or arbitration proceedings arising out of or in connection with a Finance Document, the entries made in the accounts maintained by a Finance Party are prima facie evidence of the matters to which they relate.

**34.2 Certificates and determinations**

Any certification or determination by a Finance Party of a rate or amount under any Finance Document is, in the absence of manifest error, conclusive evidence of the matters to which it relates.

**34.3 Day count convention**

Any interest, commission or fee accruing under a Finance Document will accrue from day to day and is calculated on the basis of the actual number of days elapsed and a year of 360 days or, in any case where the practice in the Relevant Market differs, in accordance with that market practice.

**35. PARTIAL INVALIDITY**

If, at any time, any provision of any Finance Document is or becomes illegal, invalid or unenforceable in any respect under any law of any jurisdiction, neither the legality, validity or enforceability of the remaining provisions nor the legality, validity or enforceability of such provision under the law of any other jurisdiction will in any way be affected or impaired.

**36. REMEDIES AND WAIVERS**

No failure to exercise, nor any delay in exercising, on the part of any Finance Party or Secured Party, any right or remedy under a Finance Document shall operate as a waiver of any such right or remedy or constitute an election to affirm any Finance Document. No election to affirm any Finance Document on the part of any Finance Party or Secured Party shall be effective unless it is in writing. No single or partial exercise of any right or remedy



shall prevent any further or other exercise or the exercise of any other right or remedy. The rights and remedies provided in each Finance Document are cumulative and not exclusive of any rights or remedies provided by law.

37. **AMENDMENTS AND WAIVERS**

37.1 **Required consents**

- (a) Subject to Clause 37.2 (*All Lender matters*) and Clause 37.3 (*Other exceptions*), any term of the Finance Documents may be amended or waived only with the consent of the Majority Lenders and the Company and any such amendment or waiver will be binding on all Parties.
- (b) The Agent may effect, on behalf of any Finance Party, any amendment or waiver permitted by this Clause 37.
- (c) Without prejudice to the generality of paragraphs (c), (d) and (e) of Clause 27.7 (*Rights and discretions*), the Agent may engage, pay for and rely on the services of lawyers in determining the consent level required for and effecting any amendment, waiver or consent under this Agreement.
- (d) Each Obligor agrees to any such amendment or waiver permitted by this Clause 37 which is agreed to by the Company. This includes any amendment or waiver which would, but for this paragraph (d), require the consent of all of the Guarantors.
- (e) Paragraph (c) of Clause 25.9 (*Pro Rata Interest Settlement*) shall apply to this Clause 37.

37.2 **All Lender matters**

Subject to Clause 37.4 (*Replacement of Screen Rate*), an amendment, waiver or (in the case of a Transaction Security Document) a consent of, or in relation to, any term of any Finance Document that has the effect of changing or which relates to:

- (a) the definition of "**Majority Lenders**" in Clause 1.1 (*Definitions*);
- (b) an extension to the date of payment of any amount under the Finance Documents;
- (c) a reduction in the Margin or a reduction in the amount of any payment of principal, interest, fees or commission payable;
- (d) a change in currency of payment of any amount under the Finance Documents;
- (e) an increase in any Commitment or the Total Commitments, an extension of any Availability Period or any requirement that a cancellation of Commitments reduces the Commitments of the Lenders rateably under the relevant Facility;
- (f) a change to the Borrowers or Guarantors other than in accordance with Clause 26 (*Changes to the Obligors*);
- (g) any provision which expressly requires the consent of all the Lenders;
- (h) Clause 2.3 (*Finance Parties' rights and obligations*), Clause 5.1 (*Delivery of a Utilisation Request*), Clause 7.1 (*Illegality*), the definition of "Change of Control" in Clause 1.1 (*Definitions*), Clause 9.8 (*Application of prepayments*), Clause 25 (*Changes to the Lenders*), Clause 26 (*Changes to the Obligors*) this Clause 37, Clause 41 (*Governing law*) or Clause 42.1 (*Jurisdiction of English courts*);

- (i) (other than as expressly permitted by the provisions of any Finance Document) the nature or scope of:
  - (i) the guarantee and indemnity granted under Clause 19 (*Guarantee and indemnity*);
  - (ii) the Charged Property; or
  - (iii) the manner in which the proceeds of enforcement of the Transaction Security are distributed(except in the case of paragraphs (ii) and (iii) above, insofar as it relates to a sale or disposal of an asset which is the subject of the Transaction Security where such sale or disposal is expressly permitted under this Agreement or any other Finance Document); or
- (j) the release of any guarantee and indemnity granted under Clause 19 (*Guarantee and indemnity*) or of any Transaction Security unless permitted under this Agreement or any other Finance Document or relating to a sale or disposal of an asset which is the subject of the Transaction Security where such sale or disposal is permitted under this Agreement or any other Finance Document,

shall not be made, or given, without the prior consent of all the Lenders.

### 37.3 **Other exceptions**

An amendment or waiver which relates to the rights or obligations of the Agent, the Arranger, the Security Agent or a Reference Bank (each in their capacity as such) may not be effected without the consent of the Agent, the Arranger, the Security Agent or that Reference Bank, as the case may be.

### 37.4 **Replacement of Screen Rate**

Subject to Clause 37.3 (*Other exceptions*), if a Screen Rate Replacement Event has occurred in relation to any Screen Rate for a currency which can be selected for a Loan, any amendment or waiver which relates to:

- (a) providing for the use of a Replacement Benchmark in relation to that currency in place of that Screen Rate; and
  - (i) aligning any provision of any Finance Document to the use of that Replacement Benchmark;
  - (ii) enabling that Replacement Benchmark to be used for the calculation of interest under this Agreement (including, without limitation, any consequential changes required to enable that Replacement Benchmark to be used for the purposes of this Agreement);
  - (iii) implementing market conventions applicable to that Replacement Benchmark;
  - (iv) providing for appropriate fallback (and market disruption) provisions for that Replacement Benchmark; or

- (v) adjusting the pricing to reduce or eliminate, to the extent reasonably practicable, any transfer of economic value from one Party to another as a result of the application of that Replacement Benchmark (and if any adjustment or method for calculating any adjustment has been formally designated, nominated or recommended by the Relevant Nominating Body, the adjustment shall be determined on the basis of that designation, nomination or recommendation),

may be made with the consent of the Agent (acting on the instructions of the Majority Lenders) and the Company.

**"Relevant Nominating Body"** means any applicable central bank, regulator or other supervisory authority or a group of them, or any working group or committee sponsored or chaired by, or constituted at the request of, any of them or the Financial Stability Board.

**"Replacement Benchmark"** means a benchmark rate which is:

- (a) formally designated, nominated or recommended as the replacement for a Screen Rate by:
  - (i) the administrator of that Screen Rate (provided that the market or economic reality that such benchmark rate measures is the same as that measured by that Screen Rate) or
  - (ii) any Relevant Nominating Body,and if replacements have, at the relevant time, been formally designated, nominated or recommended under both paragraphs, the **"Replacement Benchmark"** will be the replacement under paragraph (ii) above;
- (b) in the opinion of the Majority Lenders and the Company, generally accepted in the international or any relevant domestic syndicated loan markets as the appropriate successor to a Screen Rate; or
- (c) in the opinion of the Majority Lenders and the Company, an appropriate successor to a Screen Rate.

**"Screen Rate Replacement Event"** means, in relation to a Screen Rate:

- (a) the methodology, formula or other means of determining that Screen Rate has, in the opinion of the Majority Lenders and the Company materially changed;
  - (1) the administrator of that Screen Rate or its supervisor publicly announces that such administrator is insolvent; or
  - (2) information is published in any order, decree, notice, petition or filing, however described, of or filed with a court, tribunal, exchange, regulatory authority or similar administrative, regulatory or judicial body which reasonably confirms that the administrator of that Screen Rate is insolvent,

provided that, in each case, at that time, there is no successor administrator to continue to provide that Screen Rate;

- (ii) the administrator of that Screen Rate publicly announces that it has ceased or will cease, to provide that Screen Rate permanently or indefinitely and, at that time, there is no successor administrator to continue to provide that Screen Rate;
  - (iii) the supervisor of the administrator of that Screen Rate publicly announces that such Screen Rate has been or will be permanently or indefinitely discontinued; or
  - (iv) the administrator of that Screen Rate or its supervisor announces that such Screen Rate may no longer be used;
- (c) in the opinion of the Majority Lenders and the Company, that Screen Rate is otherwise no longer appropriate for the purposes of calculating interest under this Agreement.

38. **CONFIDENTIAL INFORMATION**

38.1 **Confidentiality**

Each Finance Party agrees to keep all Confidential Information confidential and not to disclose it to anyone, save to the extent permitted by Clause 38.2 (*Disclosure of Confidential Information*) and Clause 38.3 (*Disclosure to numbering service providers*), and to ensure that all Confidential Information is protected with security measures and a degree of care that would apply to its own confidential information.

38.2 **Disclosure of Confidential Information**

Any Finance Party may disclose:

- (a) to any of its Affiliates and Related Funds and any of its or their officers, directors, employees, professional advisers, auditors, partners and Representatives such Confidential Information as that Finance Party shall consider appropriate if any person to whom the Confidential Information is to be given pursuant to this paragraph (a) is informed in writing of its confidential nature and that some or all of such Confidential Information may be price-sensitive information except that there shall be no such requirement to so inform if the recipient is subject to professional obligations to maintain the confidentiality of the information or is otherwise bound by requirements of confidentiality in relation to the Confidential Information;
- (b) to any person:
  - (i) to (or through) whom it assigns or transfers (or may potentially assign or transfer) all or any of its rights and/or obligations under one or more Finance Documents or which succeeds (or which may potentially succeed) it as Agent or Security Agent and, in each case, to any of that person's Affiliates, Related Funds, Representatives and professional advisers;
  - (ii) with (or through) whom it enters into (or may potentially enter into), whether directly or indirectly, any sub-participation in relation to, or any other transaction under which payments are to be made or may be made by reference to, one or more Finance Documents and/or one or more Obligors

and to any of that person's Affiliates, Related Funds, Representatives and professional advisers;

- (iii) appointed by any Finance Party or by a person to whom paragraph (b)(i) or (ii) above applies to receive communications, notices, information or documents delivered pursuant to the Finance Documents on its behalf (including, without limitation, any person appointed under paragraph (b) of Clause 27.15 (*Relationship with the Lenders*));
- (iv) who invests in or otherwise finances (or may potentially invest in or otherwise finance), directly or indirectly, any transaction referred to in paragraph (b)(i) or (b)(ii) above or any other financing source of a Finance Party who has provided financing in connection with the Facilities;
- (v) to whom information is required or requested to be disclosed by any court of competent jurisdiction, any governmental, banking, taxation or other regulatory authority or similar body, the rules of any relevant stock exchange or pursuant to any applicable law or regulation;
- (vi) to whom information is required to be disclosed in connection with, and for the purposes of, any litigation, arbitration, administrative or other investigations, proceedings or disputes;
- (vii) to whom or for whose benefit that Finance Party charges, assigns or otherwise creates Security (or may do so) pursuant to Clause 25.8 (*Security Interests over Lenders' rights*);
- (viii) who is a Party; or
- (ix) with the consent of the Company;

in each case, such Confidential Information as that Finance Party shall consider appropriate if:

- (1) in relation to the person to whom the Confidential Information is to be given has entered into a Confidentiality Undertaking except that there shall be no requirement for a Confidentiality Undertaking if the recipient is a professional adviser and is subject to professional obligations to maintain the confidentiality of the Confidential Information;
- (2) in relation to paragraph, the person to whom the Confidential Information is to be given has entered into a Confidentiality Undertaking or is otherwise bound by requirements of confidentiality in relation to the Confidential Information they receive and is informed that some or all of such Confidential Information may be price-sensitive information;
- (3) in relation to paragraphs (b)(v), (b)(vi) and (b)(vii) above, the person to whom the Confidential Information is to be given is informed of its confidential nature and that some or all of such Confidential Information may be price-sensitive information except that there shall be no requirement to so inform if, in the opinion of that Finance Party, it is not practicable so to do in the circumstances;

- (c) to any person appointed by that Finance Party or by a person to whom sub paragraph (b)(i) or (b)(ii) above applies to provide administration or settlement services in respect of one or more of the Finance Documents including without limitation, in relation to the trading of participations in respect of the Finance Documents, such Confidential Information as may be required to be disclosed to enable such service provider to provide any of the services referred to in this paragraph (c) if the service provider to whom the Confidential Information is to be given has entered into a confidentiality agreement substantially in the form of the LMA Master Confidentiality Undertaking for Use With Administration/Settlement Service Providers or such other form of confidentiality undertaking agreed between the Company and the relevant Finance Party; and
- (d) to any rating agency (including its professional advisers) such Confidential Information as may be required to be disclosed to enable such rating agency to carry out its normal rating activities in relation to the Finance Documents and/or the Obligors if the rating agency to whom the Confidential Information is to be given is informed of its confidential nature and that some or all of such Confidential Information may be price-sensitive information.

### 38.3 Disclosure to numbering service providers

- (a) Any Finance Party may disclose to any national or international numbering service provider appointed by that Finance Party to provide identification numbering services in respect of this Agreement, the Facilities and/or one or more Obligors the following information:
  - (i) names of Obligors;
  - (ii) country of domicile of Obligors;
  - (iii) place of incorporation of Obligors;
  - (iv) date of this Agreement;
  - (v) Clause 41 (*Governing law*);
  - (vi) the names of the Agent and the Arranger;
  - (vii) date of each amendment and restatement of this Agreement;
  - (viii) amounts of, and names of, the Facilities (and any tranches);
  - (ix) amount of Total Commitments;
  - (x) currencies of the Facilities;
  - (xi) type of Facilities;
  - (xii) ranking of Facilities;
  - (xiii) Termination Date for Facilities;
  - (xiv) changes to any of the information previously supplied pursuant to paragraphs (i) to (xiii) above; and
  - (xv) such other information agreed between such Finance Party and the Company,

to enable such numbering service provider to provide its usual syndicated loan numbering identification services.

- (b) The Parties acknowledge and agree that each identification number assigned to this Agreement, the Facilities and/or one or more Obligors by a numbering service provider and the information associated with each such number may be disclosed to users of its services in accordance with the standard terms and conditions of that numbering service provider.
- (c) The Agent shall notify the Company and the other Finance Parties of:
  - (i) the name of any numbering service provider appointed by the Agent in respect of this Agreement, the Facilities and/or one or more Obligors; and
  - (ii) the number or, as the case may be, numbers assigned to this Agreement, the Facilities and/or one or more Obligors by such numbering service provider.

**38.4 Entire agreement**

This Clause 38 constitutes the entire agreement between the Parties in relation to the obligations of the Finance Parties under the Finance Documents regarding Confidential Information and supersedes any previous agreement, whether express or implied, regarding Confidential Information.

**38.5 Inside information**

Each of the Finance Parties acknowledges that some or all of the Confidential Information is or may be price-sensitive information and that the use of such information may be regulated or prohibited by applicable legislation including securities law relating to insider dealing and market abuse and each of the Finance Parties undertakes not to use any Confidential Information for any unlawful purpose.

**38.6 Notification of disclosure**

Each of the Finance Parties agrees (to the extent permitted by law and regulation) to inform the Company of the circumstances of any disclosure by it of Confidential Information made pursuant to sub paragraph (b)(v) of Clause 38.2 (*Disclosure of Confidential Information*) except where such disclosure is made to any of the persons referred to in that paragraph during the ordinary course of its supervisory or regulatory function.

**38.7 Continuing obligations**

The obligations in this Clause 38 are continuing and, in particular, shall survive and remain binding on each Finance Party for a period of twelve months from the earlier of:

- (a) The date on which all amounts payable by the Obligors under or in connection with the Finance Documents have been paid in full and all Commitments have been cancelled or otherwise cease to be available; and
- (b) the date on which such Finance Party otherwise ceases to be a Finance Party.

39. **CONFIDENTIALITY OF FUNDING RATES AND REFERENCE BANK QUOTATIONS**

39.1 **Confidentiality and disclosure**

- (a) The Agent and each Obligor agree to keep each Funding Rate (and, in the case of the Agent, each Reference Bank Quotation) confidential and not to disclose it to anyone, save to the extent permitted by paragraphs (b), (c) and (d) below.
- (b) The Agent may disclose:
  - (i) any Funding Rate (but not, for the avoidance of doubt, any Reference Bank Quotation) to the relevant Borrower pursuant to Clause 10.4 (*Notification of rates of interest*); and
  - (ii) any Funding Rate or any Reference Bank Quotation to any person appointed by it to provide administration services in respect of one or more of the Finance Documents to the extent necessary to enable such service provider to provide those services if the service provider to whom that information is to be given has entered into a confidentiality agreement substantially in the form of the LMA Master Confidentiality Undertaking for Use With Administration/Settlement Service Providers or such other form of confidentiality undertaking agreed between the Agent and the relevant Lender or Reference Bank, as the case may be.
- (c) The Agent may disclose any Funding Rate or any Reference Bank Quotation, and each Obligor may disclose any Funding Rate, to:
  - (i) any of its Affiliates and any of its or their officers, directors, employees, professional advisers, auditors, partners and Representatives if any person to whom that Funding Rate or Reference Bank Quotation is to be given pursuant to this paragraph (i) is informed in writing of its confidential nature and that it may be price-sensitive information except that there shall be no such requirement to so inform if the recipient is subject to professional obligations to maintain the confidentiality of that Funding Rate or Reference Bank Quotation or is otherwise bound by requirements of confidentiality in relation to it;
  - (ii) any person to whom information is required or requested to be disclosed by any court of competent jurisdiction or any governmental, banking, taxation or other regulatory authority or similar body, the rules of any relevant stock exchange or pursuant to any applicable law or regulation if the person to whom that Funding Rate or Reference Bank Quotation is to be given is informed in writing of its confidential nature and that it may be price-sensitive information except that there shall be no requirement to so inform if, in the opinion of the Agent or the relevant Obligor, as the case may be, it is not practicable to do so in the circumstances;
  - (iii) any person to whom information is required to be disclosed in connection with, and for the purposes of, any litigation, arbitration, administrative or other investigations, proceedings or disputes if the person to whom that Funding Rate or Reference Bank Quotation is to be given is informed in writing of its confidential nature and that it may be price-sensitive information except that there shall be no requirement to so inform if, in the opinion of the Agent or the relevant Obligor, as the case may be, it is not practicable to do so in the circumstances; and



(iv) any person with the consent of the relevant Lender or Reference Bank, as the case may be.

(d) The Agent's obligations in this Clause 39 relating to Reference Bank Quotations are without prejudice to its obligations to make notifications under Clause 10.4 (*Notification of rates of interest*) provided that (other than pursuant to paragraph (b) (i) above) the Agent shall not include the details of any individual Reference Bank Quotation as part of any such notification.

39.2 **Related obligations**

(a) The Agent and each Obligor acknowledge that each Funding Rate (and, in the case of the Agent, each Reference Bank Quotation) is or may be price-sensitive information and that its use may be regulated or prohibited by applicable legislation including securities law relating to insider dealing and market abuse and the Agent and each Obligor undertake not to use any Funding Rate or, in the case of the Agent, any Reference Bank Quotation for any unlawful purpose.

(b) The Agent and each Obligor agree (to the extent permitted by law and regulation) to inform the relevant Lender or Reference Bank as the case may be:

(i) of the circumstances of any disclosure made pursuant to paragraph (c)(ii) of Clause 39.1 (*Confidentiality and disclosure*) except where such disclosure is made to any of the persons referred to in that paragraph during the ordinary course of its supervisory or regulatory function; and

(ii) upon becoming aware that any information has been disclosed in breach of this Clause 39.

39.3 **No Event of Default**

No Event of Default will occur under Clause 24.3 (*Other obligations*) by reason only of an Obligor's failure to comply with this Clause 39.

40. **COUNTERPARTS**

Each Finance Document may be executed in any number of counterparts, and this has the same effect as if the signatures on the counterparts were on a single copy of the Finance Document.

## SECTION 12

### GOVERNING LAW AND ENFORCEMENT

#### 41. GOVERNING LAW

This Agreement and all non-contractual obligations arising in any way whatsoever out of or in connection with this Agreement shall be governed by, construed and take effect in accordance with English law.

#### 42. ENFORCEMENT

##### 42.1 Jurisdiction of English courts

- (a) The courts of England have exclusive jurisdiction to decide any dispute arising out of or in connection with this Agreement (including a dispute relating to the existence, validity or termination of this Agreement or the consequences of its nullity or any non-contractual obligations arising out of or in connection with this Agreement) (a "**Dispute**").
- (b) The Parties agree that the courts of England are the most appropriate and convenient courts to decide Disputes and accordingly no Party will argue to the contrary.

##### 42.2 Service of process

Without prejudice to any other mode of service allowed under any relevant law, each Obligor (other than an Obligor incorporated in England and Wales):

- (a) irrevocably appoints the Company at 108 Cannon Street, London EC4N 6EU at the Original Effective Date (or such other address in England and Wales as the Company may notify to the Agent in writing) as its agent for service of process in relation to any proceedings before the English courts in connection with any Finance Document (and the Company by its execution of this Agreement, accepts that appointment); and
- (b) agrees that failure by an agent for service of process to notify the relevant Obligor of the process will not invalidate the proceedings concerned; and
- (c) if any person appointed as an agent for service of process is unable for any reason to act as agent for service of process, the Company (on behalf of all the Obligors) must immediately (and in any event within five days of such event taking place) appoint another agent on terms acceptable to the Agent. Failing this, the Agent may appoint another agent for this purpose.

##### 42.3 Waiver of immunity

Each Obligor (to the fullest extent permitted by law) irrevocably and unconditionally:

- (a) agrees not to claim any immunity from proceedings brought against it by any Finance Party in relation to any Finance Document, and to ensure that no such claim is made on its behalf;
- (b) waives all rights of immunity in respect of it or its assets; and
- (c) consents generally in respect of such proceedings to the giving of relief or the issue of any process in connection with such proceedings.

**This Agreement has been entered into on the date stated at the beginning of this Agreement and executed as a deed by each Obligor and is intended to be and is delivered by them as a deed on the date specified above.**

Hogan Lovells

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**SCHEDULE 1**

**The Original Parties**

**Part 1  
The Original Obligors**

<b>The Borrower</b>	<b>Registration number (or equivalent, if any) and Original Jurisdiction</b>
Orchard Therapeutics plc	11494381, England and Wales
<b>The Original Guarantors</b>	<b>Registration number (or equivalent, if any) and Original Jurisdiction</b>
Orchard Therapeutics plc	11494381, England and Wales
Orchard Therapeutics (Europe) Limited	09759506, England and Wales
Orchard Therapeutics North America	C3896310, California, USA

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**Part 2**  
**The Original Lenders (as at the First Effective Date)**

Name of Original Lender	Facility Commitment (\$)	A1 Facility Commitment (\$)	A2 Facility Commitment (\$)	Facility B Commitment (\$)	Facility C Commitment (\$)	Treaty reference jurisdiction of tax re: (applicable)	Passport number
MidCap) 2020-4 Inated Activity pany	2,666,666.67		0	0		012/E/380632/DTTP, Ire	
MidCap) 2020-3 Inated Activity pany	14,000,000.00		0	0		012/E/380255/DTTP, Ire	
ap Financial (Ireland) ad		0	5,333,333.33	22,000,000.00	22,666,666.67	12/M/368330/DTTP, Ire	
o Investment ration	8,333,333.33	2,666,666.67		11,000,000.00	11,333,333.33	13/A/351948/DTTP, US	
	<b>25,000,000.00</b>	<b>8,000,000.00</b>		<b>33,000,000.00</b>	<b>34,000,000.00</b>		

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**SCHEDULE 2**

**Conditions Precedent**

**Part 1**

**Conditions precedent to signing of the Agreement on the Original Effective Date**

**1. OBLIGORS**

- (a) A copy of the Constitutional Documents and the constitutional documents of each Original Obligor, in each case, with such amendments as the Security Agent may reasonably request.
- (b) A copy of a resolution of the board or, if applicable, a committee of the board of directors of the Company and each Original Obligor:
  - (i) approving the terms of, and the transactions contemplated by, the Finance Documents to which it is a party and resolving that it execute, deliver and perform the Finance Documents to which it is a party;
  - (ii) authorising a specified person or persons to execute the Finance Documents to which it is a party on its behalf; and
  - (iii) authorising a specified person or persons, on its behalf, to sign and/or despatch all documents and notices (including, if relevant, any Utilisation Request and Selection Notice) to be signed and/or despatched by it under or in connection with the Finance Documents to which it is a party.
- (c) If applicable, a copy of a resolution of the board of directors of the relevant company, establishing the committee referred to in paragraph (b) above.
- (d) A specimen of the signature of each person authorised by the resolution referred to in paragraph (b) above in relation to the Finance Documents and related documents.
- (e) If required by applicable law, a copy of a resolution signed by all the holders of the issued shares in each Original Obligor (other than the Company), approving the terms of, and the transactions contemplated by, the Finance Documents to which the Original Obligor is a party.
- (f) If applicable, a copy of a resolution of the board of directors of each corporate shareholder of each Original Obligor (other than the Company) approving the terms of the resolution referred to in paragraph (e) above.
- (g) A certificate of the Company (signed by a director or officer) confirming that borrowing or guaranteeing or securing, as appropriate, the Total Commitments would not cause any borrowing, guarantee, security or similar limit binding on it or Orchard Therapeutics (Europe) Limited to be exceeded.
- (h) A certificate of the Orchard Therapeutics North America (signed by a director or officer) confirming that borrowing or guaranteeing or securing, as appropriate, the Total Commitments would not cause any borrowing, guarantee, security or similar limit binding on it to be exceeded.
- (i) A certificate of an authorised signatory of the Company certifying that each copy document relating to it and Orchard Therapeutics (Europe) Limited specified in this

Part 1 of Schedule 2 is correct, complete and in full force and effect and has not been amended or superseded as at a date no earlier than the date of this Agreement.

- (j) A certificate of an authorised signatory of Orchard Therapeutics North America certifying that each copy document relating to it specified in this Part 1 of Schedule 2 is correct, complete and in full force and effect and has not been amended or superseded as at a date no earlier than the date of this Agreement.
- (k) With respect to each US Obligor, a long-form certificate of good standing and certified charter documents from the Secretary of State of such Person's state of organisation).

2. **FINANCE DOCUMENTS**

- (a) This Agreement executed by members of the Group party to this Agreement.
- (b) The Fee Letters executed by the Company.
- (c) At least two originals of each of the following Transaction Security Documents executed by the Original Obligor specified below opposite the relevant Transaction Security Document:

Name of Original Obligor	Transaction Security Document	Governing law of document
The Company	Debenture	English law
Orchard Therapeutics (Europe) Limited	Debenture	English law
Orchard Therapeutics (Europe) Limited	Pledge Agreement	New York law
Orchard Therapeutics North America	Security Agreement	New York law

- (d) A copy of all notices required to be sent under the Transaction Security Documents duly acknowledged by the addressees.
- (e) Originals of all share certificates, transfers and stock transfer forms (all stock transfer forms to be executed by two directors or a director and the secretary of the company that owns the relevant shares but with the sections relating to the consideration and the transferee left blank) or equivalent, duly executed by the relevant Obligor in relation to the assets subject to or expressed to be subject to the Transaction Security and other documents of title to be provided under the Transaction Security Documents.
- (f) In respect of each company incorporated in the United Kingdom whose shares are the subject of the Transaction Security (a "**Charged Company**"), either:
  - (i) a certificate of an authorised signatory of the Company certifying that:
    - (1) each member of the Group has complied within the relevant timeframe with any notice it has received pursuant to Part 21A of the Companies Act 2006 from that Charged Company; and

(2) no "warning notice" or "restrictions notice" (in each case as defined in Schedule 1B of the Companies Act 2006) has been issued in respect of those shares,

together with a copy of the "PSC register" (within the meaning of section 790C(10) of the Companies Act 2006) of that Charged Company which, in the case of a Charged Company that is a member of the Group, is certified by an authorised signatory of the Company to be correct, complete and not amended or superseded as at a date no earlier than the date of this Agreement; or

(ii) a certificate of an authorised signatory of the Company certifying that such Charged Company is not required to comply with Part 21A of the Companies Act 2006.

(g) Any document or information required to be delivered to the Agent or the Security Agent on or prior to the Closing Date pursuant to the terms of any Transaction Security Document and not otherwise specifically referred to in this Schedule.

3. **LEGAL OPINIONS**

The following legal opinions, each addressed to the Agent, the Security Agent and the Original Lenders and capable of being relied upon by any persons who become Lenders pursuant to the primary syndication of the Facilities:

- (a) a legal opinion of Hogan Lovells International LLP, legal advisers to the Agent and the Arranger as to English law substantially in the form distributed to the Original Lenders prior to signing this Agreement;
- (b) a legal opinion of Ashurst LLP, legal advisers to the US Obligor as to California law substantially in the form distributed to the Original Lenders prior to signing this Agreement; and
- (c) a legal opinion of Ashurst LLP, legal advisers to the US Obligor as to New York law substantially in the form distributed to the Original Lenders prior to signing this Agreement,

each substantially in the form distributed to the Original Lenders prior to signing this Agreement.

4. **OTHER DOCUMENTS AND EVIDENCE**

- (a) Evidence that any process agent referred to in Clause 42.2 (*Service of process*), if not an Original Obligor, has accepted its appointment.
- (b) The Investment Policy.
- (c) The Group Structure Chart.
- (d) The Base Case Model.
- (e) A copy, certified by an authorised signatory of the Company to be a true copy, of the Original Financial Statements of each Obligor.
- (f) A copy of any other Authorisation or other document, opinion or assurance which the Agent considers to be necessary (if it has notified the Company accordingly) in



connection with the entry into and performance of the transactions contemplated by any Finance Document or for the validity and enforceability of any Finance Document.

- (g) Any information and evidence in respect of any Obligor required by any Finance Party to enable it to be satisfied with the results of all "know your customer" or other checks which it is required to carry out in relation to such person.
- (h) Evidence that the fees, costs and expenses then due from the Company pursuant to Clause 13 (*Fees*), Clause 14.6 (*Stamp taxes*) and Clause 18 (*Costs and expenses*) have been paid or will be paid by the first Utilisation Date.
- (i) Lien searches customary in the jurisdiction of formation of such Original Obligor.
- (j) Financing Statements (or local law equivalents) required pursuant to any Financing Document.

**Part 2**  
**Conditions precedent required to be delivered by an Additional Obligor**

1. An Accession Deed executed by the Additional Obligor and the Company.
2. A copy of the constitutional documents of the Additional Obligor, with such amendments as the Agent may reasonably require.
3. A copy of a resolution of the board of directors of the Additional Obligor:
  - (a) approving the terms of, and the transactions contemplated by, the Accession Deed and the Finance Documents and resolving that it execute, deliver and perform the Accession Deed and any other Finance Document to which it is party;
  - (b) authorising a specified person or persons to execute the Accession Deed and other Finance Documents on its behalf;
  - (c) authorising a specified person or persons, on its behalf, to sign and/or despatch all other documents and notices to be signed and/or despatched by it under or in connection with the Finance Documents to which it is a party; and
  - (d) authorising the Company to act as its agent in connection with the Finance Documents.
4. A specimen of the signature of each person authorised by the resolution referred to in paragraph 3 above.
5. If required by applicable law, a copy of a special resolution signed by all the holders of the issued shares of the Additional Guarantor, approving the terms of, and the transactions contemplated by, the Finance Documents to which the Additional Guarantor is a party.
6. If applicable, a copy of a resolution of the board of directors of each corporate shareholder of each Additional Guarantor approving the terms of the resolution referred to in paragraph 5 above.
7. A certificate of the Additional Obligor (signed by a director or officer) confirming that: (1) borrowing or guaranteeing or securing, as appropriate, the Total Commitments would not cause any borrowing, guarantee, security or similar limit binding on it to be exceeded; and (2) the Additional Obligor has positive net assets.
8. A certificate of an authorised signatory of the Additional Obligor certifying that each copy document listed in this Part 2 of Schedule 2 is correct, complete and in full force and effect and has not been amended or superseded as at a date no earlier than the date of the Accession Deed.
9. A copy of any other Authorisation or other document, opinion or assurance which the Agent considers to be necessary or desirable in connection with the entry into and performance of the transactions contemplated by the Accession Deed or for the validity and enforceability of any Finance Document.
10. If available, the latest audited financial statements of the Additional Obligor.
11. The following legal opinions, each addressed to the Agent, the Security Agent and the Lenders:

- (a) A legal opinion of Hogan Lovells International LLP as advisers to the Agent in England, as to English law in the form distributed to the Lenders prior to signing the Accession Deed.
  - (b) If the Additional Obligor is incorporated in or has its "centre of main interest" or "establishment" (as referred to in Clause 20.27 (*Centre of main interests and establishments*)) in a jurisdiction other than England and Wales or is executing a Finance Document which is governed by a law other than English law, a legal opinion of the legal advisers to the Agent in the jurisdiction of its incorporation, "centre of main interest" or "establishment" (as applicable) or, as the case may be, the jurisdiction of the governing law of that Finance Document (the "**Applicable Jurisdiction**") as to the law of the Applicable Jurisdiction and in the form distributed to the Lenders prior to signing the Accession Deed and, in the case of an Additional Obligor that will be a US Obligor, the legal advisers to the Company or to the Additional Obligor will also provide customary opinions (including as to creation and perfection of security interests) as to New York law, Delaware law (or such other state, territory or district as shall be the jurisdiction of organisation of that US Obligor or whose law shall govern with respect to the perfection of security interests) and the federal law of the United States. The legal advisers to the Company or to the Additional Obligor will also provide customary opinions with respect to security interests granted by non-US Obligors covering interests in US companies or US property.
  - (c) If an Obligor or Additional Obligor (as the case may be) grants security over the shares it owns in a Subsidiary where that Subsidiary is incorporated in a different jurisdiction from the jurisdiction of that Obligor, legal opinions of the legal advisers to the Agent:
    - (i) in the Applicable Jurisdiction for the relevant Transaction Security Document; and
    - (ii) in the jurisdiction where the relevant Obligor or Additional Obligor is incorporated, or has its centre of main interests or "establishment" (as applicable).
12. If the proposed Additional Obligor is incorporated in a jurisdiction other than England and Wales, evidence that the process agent specified in Clause 42.2 (*Service of process*), if not an Obligor, has accepted its appointment in relation to the proposed Additional Obligor.
- (a) The Transaction Security Documents or other security documents which subject to the Agreed Security Principles are required by the Agent to be executed by the proposed Additional Obligor.
  - (b) Such evidence concerning the PSC register (within the meaning of S790C(10) of the Act) of any company incorporated in the United Kingdom whose shares are to be charged by an Additional Obligor as the Agent may reasonably request.
14. Any notices or documents (including title deeds) required to be given or executed under the terms of those security documents referred to in paragraph 13 above.
15. Share certificates and stock transfer forms executed in blank (as described in paragraph 2(e) of Part 1 of this Schedule) as required by any security document.

- (a) In relation to Additional Obligors incorporated in England and Wales or Scotland, evidence that members of the Group incorporated in England and Wales or Scotland have done all that is necessary (including, without limitation, by re-registering as a private company) to ensure that the relevant Additional Obligor can enter into the Finance Documents and perform its obligations under the Finance Documents without breach of any applicable financial assistance or capital maintenance laws. Such evidence shall include copies of board and special resolutions for each relevant Additional Obligor and copies of the registers of directors and shareholders of each relevant Additional Obligor.
  - (b) If the Additional Obligor is not incorporated in England and Wales or Scotland, such documentary evidence as legal counsel to the Agent may require, that such Additional Obligor:
    - (i) has complied with any law in its jurisdiction relating to financial assistance or analogous process; and
    - (ii) is not an overseas company which has registered an establishment in the UK under the Overseas Companies Regulations 2009 (SI 2009/1801), or, if that Additional Obligor has so registered a UK establishment: (1) giving the full name and registered number of such UK establishment; (2) attaching a certified copy of that company's own internal register of charges; and (3) confirming that the Additional Obligor has not created any charges (whether registrable or not) which have not been registered on that register of charges for any reason.
17. Evidence that all necessary or desirable Authorisations from any government authority or other regulatory body in connection with the entry into and performance of the transactions contemplated by the Accession Deed, any Finance Document or Transaction Document to which the Additional Obligor is party or for the validity or enforceability of any of those documents have been obtained and are in full force and effect, together with certified copies of those obtained.
18. A certificate of the Company confirming that no Default is continuing or would occur as a result of the Additional Obligor executing the Accession Deed or the Finance Documents or the Finance Documents to which it is party.
19. Such other information or documents that the Agent may reasonably require, including any information and evidence in respect of the Additional Obligor required by any Finance Party to enable it to be satisfied with the results of all "know your customer" or other checks which it is required to carry out in relation to such Obligor.
20. A copy of the register listing the directors of the Additional Obligor.
21. If the Additional Obligor is incorporated in a state of the United States or the District of Columbia each US Obligor also will be required to deliver a certificate of good standing and certified charter documents from the Secretary of State of the State of Delaware (or other state of organisation).
22. Lien searches customary in the jurisdiction of formation of such Additional Obligor.
23. Financing Statements (or local law equivalents) required pursuant to any Financing Document.

**SCHEDULE 3**

**Requests**

**Part 1  
Utilisation Request**

From: [Borrower]/[Company]

To: [Agent]

Dated:

Dear Sirs

**[COMPANY] – SENIOR FACILITIES AGREEMENT DATED [ \*\*\* ] (THE "FACILITIES AGREEMENT")**

1. We refer to the Facilities Agreement. This is a Utilisation Request. Terms defined in the Facilities Agreement have the same meaning in this Utilisation Request unless given a different meaning in this Utilisation Request.
2. We wish to borrow a Loan on the following terms:
  - (a) Borrower: [ \*\*\* ]
  - (b) Proposed Utilisation Date: [ \*\*\* ] (or, if that is not a Business Day, the next Business Day)
  - (c) Facility to be utilised: [Facility A1]/[Facility A2]/[Facility B]/[Facility C]
  - (d) Currency of Loan: US Dollars
  - (e) Amount: [ \*\*\* ] or, if less, the Available Facility
  - (f) Interest Period: [ \*\*\* ]
3. We confirm that each condition specified in Clause 4.2 (*Further conditions precedent*) of the Facilities Agreement is satisfied on the date of this Utilisation Request.
4. The proceeds of this Loan should be credited to [account].
5. This Utilisation Request is irrevocable.

Yours faithfully

.....

authorised signatory for

[the Company on behalf of [insert name of relevant Borrower]/[insert name of Borrower]

**Part 2  
Selection Notice**

From: [Borrower]/[Company]

To: [Agent]

Dated:

Dear Sirs

**[COMPANY] - [ \*\*\* ] SENIOR FACILITIES AGREEMENT DATED [ \*\*\* ] (THE "FACILITIES AGREEMENT")**

1. We refer to the Facilities Agreement. This is a Selection Notice. Terms defined in the Facilities Agreement have the same meaning in this Selection Notice unless given a different meaning in this Selection Notice.
2. We refer to the following [Facility A1 Loan / Facility A2 Loan / Facility B Loan / Facility C Loan].
3. We request that the next Interest Period for the above Loan[s] is [ \*\*\* ].
4. This Selection Notice is irrevocable.

Yours faithfully,

.....

authorised signatory for  
[the Company on behalf of]/[insert name of Relevant Borrower]

Hogan Lovells

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SCHEDULE 4

Form of Transfer Certificate

To: [ \*\*\* ] as Agent and [ \*\*\* ] as Security Agent

From: [The Existing Lender] (the "Existing Lender") and [The New Lender] (the "New Lender")

Dated:

[COMPANY] – SENIOR FACILITIES AGREEMENT DATED [ \*\*\* ] (THE "FACILITIES AGREEMENT")

1. We refer to the Facilities Agreement. This agreement (the "**Agreement**") shall take effect as a Transfer Certificate for the purpose of the Facilities Agreement. Terms defined in the Facilities Agreement have the same meaning in this Agreement unless given a different meaning in this Agreement.
2. We refer to Clause 25.5 (*Procedure for transfer*) of the Facilities Agreement:
  - (a) The Existing Lender and the New Lender agree to the Existing Lender transferring to the New Lender by novation and in accordance with Clause 25.5 (*Procedure for transfer*) of the Facilities Agreement all of the Existing Lender's rights and obligations under the Facilities Agreement, the other Finance Documents and in respect of the Transaction Security which relate to that portion of the Existing Lender's Commitment(s) and participations in Utilisations under the Facilities Agreement as specified in the Schedule [OR] [ \*\*\* Each Existing Lender listed in Part 1 of the Schedule transfers by novation to each New Lender listed in Part 2 of the Schedule that portion of the outstanding Utilisations and Commitments in accordance with Clause 25.5 (*Procedure for transfer*), such that:
    - (i) each New Lender will become a Lender under the Agreement with the respective Commitment and portion of outstanding Utilisations set out opposite its name in Part 3 of the Schedule; and
    - (ii) each Existing Lender's Commitment and portion of outstanding Utilisations will be reduced to the amounts set out opposite its name in Part 3 of the Schedule. \*\*\* ]
  - (b) The proposed Transfer Date is [ \*\*\* ].
  - (c) The Facility Office and address, fax number and attention details for notices of the New Lender for the purposes of Clause 33.2 (*Addresses*) of the Facilities Agreement are set out in the Schedule.
3. [ \*\*\* The/Each \*\*\* ] New Lender expressly acknowledges the limitations on the Existing Lender[s]'s obligations set out in paragraph (c) of Clause 25.4 (*Limitation of responsibility of Existing Lenders*) of the Facilities Agreement.
4. The New Lender confirms, for the benefit of the Agent and without liability to any Obligor, that it is:
  - (a) [a Qualifying Lender (other than a Treaty Lender);]
  - (b) [a Treaty Lender;]
  - (c) [not a Qualifying Lender].

5. [ \*\*\* The/Each New Lender confirms that the person beneficially entitled to interest payable to that Lender in respect of an advance under a Finance Document is either:
- (a) a company resident in the United Kingdom for United Kingdom tax purposes; or
  - (b) a partnership each member of which is:
    - (i) a company so resident in the United Kingdom; or
    - (ii) a company not so resident in the United Kingdom which carries on a trade in the United Kingdom through a permanent establishment and brings into account in computing its chargeable profits (within the meaning of section 19 of the CTA) the whole of any share of interest payable in respect of that advance that falls to it by reason of Part 17 of the CTA; or
  - (c) a company not so resident in the United Kingdom which carries on a trade in the United Kingdom through a permanent establishment and which brings into account interest payable in respect of that advance in computing the chargeable profits (within the meaning of section 19 of the CTA) of that company.
6. [The New Lender confirms that it holds a passport under the HMRC DT Treaty Passport scheme (reference number [ ]) and is tax resident in [insert jurisdiction of tax residence], so that interest payable to it by borrowers is generally subject to full exemption from UK withholding tax requests that the Company notify
- (a) each Borrower which is a Party as a Borrower as at the Transfer Date ; and
  - (b) each Additional Borrower which becomes an Additional Borrower after the Transfer Date,
- that it wishes that scheme to apply to the Facilities Agreement.]<sup>1</sup>
7. This Agreement may be executed in any number of counterparts and this has the same effect as if the signatures on the counterparts were on a single copy of this Agreement.
8. For the purpose of Clause 33.7 (*Use of websites*) the New Lender is a [ \*\*\* Website Lender \*\*\* ] [ \*\*\* Paper Form Lender \*\*\* ]. \*\*\* ] OR [ \*\*\* each New Lender specifies in Part 4 of the Schedule opposite its name whether it is a Website Lender or a Paper Form Lender. \*\*\* ]
9. This Agreement and all non-contractual obligations arising in any way whatsoever out of or in connection with this Agreement shall be governed by, construed and take effect in accordance with English law.
10. This Agreement has been entered into on the date stated at the beginning of this Agreement.

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<sup>1</sup> Include if the new Lender holds a passport under the HMRC DT Treaty Passport Scheme and wishes that scheme to apply to the Facilities Agreement.



**Note:**

The execution of this Transfer Certificate may not transfer a proportionate share of the Existing Lender's interest in the Transaction Security in all jurisdictions. It is the responsibility of the New Lender to ascertain whether any other documents or other formalities are required to perfect a transfer of such a share in the Existing Lender's Transaction Security in any jurisdiction and, if so, to arrange for execution of those documents and completion of those formalities.

Hogan Lovells

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**The Schedule**

**Commitment/rights and obligations to be transferred**

*[insert relevant details]*

*[Facility Office address, fax number and attention details for notices and account details for payments,]*

[Existing Lender]

[New Lender]

By:

By:

This Agreement is accepted as a Transfer Certificate for the purposes of the Facilities Agreement by the Agent and the Security Agent and the Transfer Date is confirmed as [ \*\*\* ].

[Agent]

By:

[Security Agent]

By:

Hogan Lovells

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SCHEDULE 5

Form of Assignment Agreement

To: [ \*\* ] as Agent, [ \*\* ] ad Security Agent and [ \*\* ] as Company, for and on behalf of each Obligor.

From: [the *Existing Lender*] (the "**Existing Lender**") and [the *New Lender*] (the "**New Lender**")

Dated: [ \*\* ]

[COMPANY] - [ \*\* ] SENIOR FACILITIES AGREEMENT DATED [ \*\* ] (THE "**FACILITIES AGREEMENT**")

1. We refer to the Facilities Agreement. This is an Assignment Agreement. This agreement (the "**Agreement**") shall take effect as an Assignment Agreement for the purposes of the Facilities Agreement. Terms defined in the Facilities Agreement have the same meaning in this Agreement unless given a different meaning in this Agreement.
2. We refer to Clause 25.6 (*Procedure for assignment*) of the Facilities Agreement.
  - (a) The Existing Lender assigns absolutely to the New Lender all the rights of the Existing Lender under the Facilities Agreement, the other Finance Documents and in respect of the Transaction Security which correspond to that portion of the Existing Lender's Commitment(s) and participations in Utilisations under the Facilities Agreement as specified in the Schedule;
  - (b) The Existing Lender is released from all the obligations of the Existing Lender which correspond to that portion of the Existing Lender's Commitment(s) and participations in Utilisations under the Facilities Agreement specified in the Schedule.
  - (c) The New Lender becomes a Party as a Lender and is bound by obligations equivalent to those from which the Existing Lender is released under paragraph (b) above.
3. The proposed Transfer Date is [ \*\* ]
4. On the Transfer Date the New Lender becomes Party to the relevant Finance Documents as a Lender.
5. The Facility office and address, fax number and attention details for notices of the New Lender for the purposes of Clause 33.2 (*Addresses*) of the Facilities Agreement are set out in the Schedule.
6. The New Lender expressly acknowledges the limitations on the Existing Lender's obligations set out in paragraph (c) of Clause 25.4 (*Limitation of responsibility of Existing Lenders*) of the Facilities Agreement.
7. The New Lender confirms, for the benefit of the Agent and without liability to any Obligor, that it is:
  - (a) [a Qualifying Lender (other than a Treaty Lender);]
  - (b) [a Treaty Lender;]
  - (c) [not a Qualifying Lender].

8. [ \*\*\* The New Lender confirms that the person beneficially entitled to interest payable to that Lender in respect of an advance under a Finance Document is either:
- (a) a company resident in the United Kingdom for United Kingdom tax purposes;
  - (b) a partnership each member of which is:
    - (i) a company so resident in the United Kingdom; or
    - (ii) a company not so resident in the United Kingdom which carries on a trade in the United Kingdom through a permanent establishment and brings into account in computing its chargeable profits (within the meaning of section 19 of the CTA) the whole of any share of interest payable in respect of that advance that falls to it by reason of Part 17 of the CTA; or
  - (c) a company not so resident in the United Kingdom which carries on a trade in the United Kingdom through a permanent establishment and which brings into account interest payable in respect of that advance in computing the chargeable profits (within the meaning of section 19 of the CTA) of that company.
9. [The New Lender confirms that it holds a passport under the HMRC DT Treaty Passport scheme (reference number [ ]) and is tax resident in [insert jurisdiction of tax residence], so that interest payable to it by borrowers is generally subject to full exemption from UK withholding tax requests that the Company notify:
- (a) each Borrower which is a Party as a Borrower as at the Transfer Date; and
  - (b) each Additional Borrower which becomes an Additional Borrower after the Transfer Date
- the Borrower that it wishes that scheme to apply to the Facilities Agreement.]
10. This Agreement acts as notice to the Agent (on behalf of each Finance Party) and upon delivery in accordance with Clause 25.7 (*Copy of Transfer Certificate, Assignment Agreement or Increase Confirmation to Company*) to the Company (on behalf of each Obligor) of the assignment referred to in this Assignment Agreement.
11. This Agreement may be executed in any number of counterparts and this has the same effect as if the signatures on the counterparts were on a single copy of this Assignment Agreement.
12. For the purpose of Clause 33.7 (*Use of websites*) the New Lender is a [ \*\*\* Website Lender \*\*\* ] [ \*\*\* Paper Form Lender \*\*\* ]
13. This Agreement and all non-contractual obligations arising in any way whatsoever out of or in connection with this Assignment Agreement shall be governed by, construed and take effect in accordance with English law.
14. This Agreement has been entered into on the date stated at the beginning of this Agreement.

**Note:** **The execution of this Assignment Agreement may not transfer a proportionate share of the Existing Lender's interest in the Transaction Security in all jurisdictions. It is the responsibility of the New Lender to ascertain whether any other documents or other formalities are required to perfect a transfer of such a share in the Existing Lender's Transaction Security in any jurisdiction and, if so, to arrange for execution of those documents and completion of those formalities.**

Hogan Lovells

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THE SCHEDULE

**Commitment/rights and obligations to be transferred by  
assignment, release and accession**

[ \*\*\* insert relevant details \*\*\* ]

[ \*\*\* Facility office address, fax number and attention details for notices and account details for payments \*\*\* ]

[ \*\*\* Existing Lender \*\*\* ]

[ \*\*\* New Lender \*\*\* ]

By: By:

This Agreement is accepted as an Assignment Agreement for the purposes of the Facilities Agreement by the Agent and the Security Agent and the Transfer Date is confirmed as [ \*\*\* ].

[ \*\*\* Signature of this Agreement by confirmation by the Agent of receipt of notice of the assignment referred to in this Agreement, which notice the Agent receives on behalf of each Finance Party. \*\*\* ]

[ \*\*\* Agent \*\*\* ]

By:

[ \*\*\* Security Agent \*\*\* ]

By:

Hogan Lovells

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**SCHEDULE 6**  
**Form of Accession Deed**

To: [ \*\*\* ] as Agent  
From: [Subsidiary] and [Company]  
Dated:

Dear Sirs

**[COMPANY] – SENIOR FACILITIES AGREEMENT DATED [ \*\*\* ] (THE "FACILITIES AGREEMENT")**

1. We refer to the Facilities Agreement. This deed (the "**Accession Deed**") shall take effect as an Accession Deed for the purposes of the Facilities Agreement. Terms defined in the Facilities Agreement have the same meaning in paragraphs 1-4 of this Accession Deed unless given a different meaning in this Accession Deed.
2. [Subsidiary] agrees to become an Additional [Borrower]/[Guarantor] and to be bound by the terms of the Facilities Agreement and the other Finance Documents as an Additional [Borrower]/[Guarantor] pursuant to [Clause 26.2 (*Additional Borrowers*)]/[Clause 26.2 (*Additional Guarantors*)] of the Facilities Agreement. [Subsidiary] is a company duly incorporated under the laws of [name of relevant jurisdiction] and is a limited liability company with registered number [ \*\*\* ].
3. [The Company confirms that no Default is continuing or would occur as a result of [Subsidiary] becoming an Additional Borrower.]
4. [Subsidiary's] administrative details for the purposes of the Facilities Agreement are as follows:  
Address:  
Fax No.:  
Attention:  
  
the "**Relevant Documents**".
5. This Accession Deed [and all non-contractual obligations arising in any way whatsoever out of or in connection with this Accession Deed] shall be governed by, construed and take effect in accordance with English law.

**THIS ACCESSION DEED** has been signed on behalf of the Company and executed as a deed by [Subsidiary] and is delivered on the date stated above.

Hogan Lovells

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[SUBSIDIARY]

[Executed as a Deed )

by: [Subsidiary )

Director

Director/Secretary

OR

[Executed as a Deed )

by: [Subsidiary )

Signature of Director: \_\_\_\_\_

Name of Director: \_\_\_\_\_

in the presence of:

Signature of witness:

Name of witness: \_\_\_\_\_

Address of witness: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Occupation of witness: \_\_\_\_\_

**THE COMPANY**

[Company]

By:



SCHEDULE 7

Form of Resignation Letter

To: [ ] as Agent

From: [resigning Obligor] and [Company]

Dated:

Dear Sirs

[COMPANY] – [ ] SENIOR FACILITIES AGREEMENT DATED [ ] (THE "FACILITIES AGREEMENT")

1. We refer to the Facilities Agreement. This is a Resignation Letter. Terms defined in the Facilities Agreement have the same meaning in this Resignation Letter unless given a different meaning in this Resignation Letter.
2. Pursuant to [Clause 26.3 (*Resignation of a Borrower*)]/[Clause 26.5 (*Resignation of a Guarantor*)] of the Facilities Agreement, we request that resigning Obligor be released from its obligations as a [Borrower]/[Guarantor] under the Facilities Agreement and the Finance Documents.
3. We confirm that:
  - (a) no Default is continuing or would result from the acceptance of this request; and
  - (b) this request is given in relation to a Third Party Disposal of [resigning Obligor];
  - (c) the Disposal Proceeds have been or will be applied in accordance with Clause 8.2 (*Disposal, Insurance and Acquisition Proceeds*) of the Facilities Agreement;
  - (d) [ ].
4. This Resignation Letter and any non-contractual obligations arising out of or in connection with it are governed by English law.

[Company]

[resigning Obligor]

By:

By:

**SCHEDULE 8**  
**Form of Compliance Certificate**

To: [ \*\* ] as Agent

From: [Company]

Dated:

Dear Sirs

**[COMPANY] - SENIOR FACILITIES AGREEMENT DATED [ \*\* ] (THE "FACILITIES AGREEMENT")**

1. We refer to the Facilities Agreement. This is a Compliance Certificate. Terms defined in the Facilities Agreement have the same meaning when used in this Compliance Certificate unless given a different meaning in this Compliance Certificate.
2. We confirm that:  
  
 [Insert details of covenants to be certified] and the aggregate amount of cash and cash equivalents held by the Group as of the date hereof is \$[\_\_\_\_\_] and the aggregate amount of Group Unrestricted Cash as of the date hereof is \$[\_\_\_\_\_] .  
  
 [Net Revenue for the trailing twelve month period ended as of the date hereof, was \$[\_\_\_\_\_] , as evidenced by the Financial Statements attached hereto.]<sup>2</sup>
3. We confirm that no Default is continuing.<sup>3</sup>

Signed: .....	.....
Director/Officer Of [Company]	Director/Officer Of [Company]

<sup>2</sup> To be included at the Obligors' option in order to satisfy the draw condition with respect to Facility C.  
<sup>3</sup> If this statement cannot be made, the certificate should identify any Default that is continuing and the steps, if any, being taken to remedy it.

**SCHEDULE 9**

**Timetables**

**Loans**

	<b>Loans in dollars</b>
Delivery of a duly completed initial Utilisation Request (Clause 5.1 ( <i>Delivery of a Utilisation Request</i> )) or a Selection Notice (Clause 11.1 ( <i>Selection of Interest Periods and Terms</i> ))	U-0 9.30 am
Delivery of a duly completed Utilisation Request (other than the initial Utilisation Request) (Clause 5.1 ( <i>Delivery of a Utilisation Request</i> ))	U-10 9.30 am
Agent determines (in relation to a Utilisation) the amount of the Loan, if required under Clause 5.4 ( <i>Lenders' participation</i> ) and notifies the Lenders of the Loan in accordance with Clause 5.4 ( <i>Lenders' participation</i> )	U-1 Noon
LIBOR is fixed	Quotation Day 11:00 am
Reference Bank Rate calculated by reference to available quotations in accordance with Clause 12.2 ( <i>Calculation of Reference Bank Rate</i> )	Noon on the Quotation Day

"U" = date of utilisation or, if applicable, in the case of a Loan that has already been borrowed, the first day of the relevant Interest Period for that Loan.

"U-X" = X Business Days prior to date of utilisation

Hogan Lovells

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**SCHEDULE 10**

**Form of Increase Confirmation**

To: [ ] as Agent, [ ] as Security Agent and [ ] as Company, for and on behalf of each Obligor

From: [the Increase Lender] (the "Increase Lender")

Dated:

**[COMPANY] - [ ] SENIOR FACILITIES AGREEMENT DATED [ ] (THE "FACILITIES AGREEMENT")**

1. We refer to the Facilities Agreement. This agreement (the "**Agreement**") shall take effect as an Increase Confirmation for the purpose of the Facilities Agreement. Terms defined in the Facilities Agreement have the same meaning in this Agreement unless given a different meaning in this Agreement.
2. We refer to Clause 2.2 (*Increase*) of the Facilities Agreement.
3. The Increase Lender agrees to assume and will assume all of the obligations corresponding to the Commitment specified in the Schedule (the "**Relevant Commitment(s)**") as if it had been an Original Lender under the Facilities Agreement in respect of the Relevant Commitment(s).
4. The proposed date on which the increase in relation to the Increase Lender and the Relevant Commitment(s) is to take effect (the "**Increase Date**") is [\*\*\*].
5. On the Increase Date, the Increase Lender become party to the relevant Finance Documents as a Lender.
6. The Facility Office and address, fax number and attention details for notices to the Increase Lender for the purposes of Clause 33.2 (*Addresses*) of the Facilities Agreement are set out in the Schedule.
7. The Increase Lender expressly acknowledges the limitations on the Lenders' obligations referred to in paragraph (k) of Clause 2.2 (*Increase*) of the Facilities Agreement .
8. The Increase Lender confirms, for the benefit of the Agent and without liability to any Obligor, that it is:
  - (a) [a Qualifying Lender (other than a Treaty Lender);]
  - (b) [a Treaty Lender;]
  - (c) [not a Qualifying Lender].
9. [The Increase Lender confirms that the person beneficially entitled to interest payable to that Lender in respect of an advance under a Finance Document is either:
  - (a) a company resident in the United Kingdom for United Kingdom tax purposes;
  - (b) a partnership each member of which is:
    - (i) a company so resident in the United Kingdom; or
    - (ii) a company not so resident in the United Kingdom which carries on a trade in the United Kingdom through a permanent establishment and which brings

into account in computing its chargeable profits (within the meaning of section 19 of the CTA) the whole of any share of interest payable in respect of that advance that falls to it by reason of Part 17 of the CTA; or

(c) a company not so resident in the United Kingdom which carries on a trade in the United Kingdom through a permanent establishment and which brings into account interest payable in respect of that advance in computing the chargeable profits (within the meaning of section 19 of the CTA) of that company.]

10. [The Increase Lender confirms that it holds a passport under the HMRC DT Treaty Passport scheme (reference number [ ]) and is tax resident in [insert jurisdiction of tax residence], so that interest payable to it by borrowers is generally subject to full exemption from UK withholding tax and requests that the Company notify:

(a) each Borrower which is a Party as a Borrower as at the Increase Date; and

(b) each Additional Borrower which becomes an Additional Borrower after the Increase Date,

that it wishes the scheme to apply to the Facilities Agreement.]<sup>4</sup>

11. This Agreement may be executed in any number of counterparts and this has the same effect as if the signatures on the counterparts were on a single copy of this Agreement.

12. This Agreement [and any non-contractual obligations arising out of or in connection with it] [is/are] governed by English law.

13. This Agreement has been entered into on the date stated at the beginning of this Agreement.

**Note:** **The execution of this Increase Confirmation may not be sufficient for the Increase Lender to obtain the benefit of the Transaction Security in all jurisdictions. It is the responsibility of the Increase Lender to ascertain whether any other documents or other formalities are required to obtain the benefit of the Transaction Security in any jurisdiction and, if so, to arrange for execution of those documents and completion of those formalities.**

#### THE SCHEDULE

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<sup>4</sup> This confirmation must be included if the Increase Lender holds a passport under the HMRC DT Treaty Passport scheme and wishes that scheme to apply to the Facilities Agreement.

**Relevant Commitment/rights and obligations to be assumed by the Increase Lender**

[insert relevant details]

[Facility office address, fax number and attention details for notices and account details for payments]

[Increase Lender]

By:

This Agreement is accepted as an Increase Confirmation for the purposes of the Facilities Agreement by the Agent and the Increase Date is confirmed as [ ].

Agent

By:

Hogan Lovells

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**SCHEDULE 11**

**Agreed Security Principles**

1. **DEFINITIONS**

In this Schedule:

**"Secured Liabilities"** means all present and future obligations and liabilities (whether actual or contingent and whether owed jointly or severally or in any other capacity whatsoever) of each Obligor to all or any of the Secured Parties under each or any of the Finance Documents together with:

- (a) all costs, charges and expenses incurred by any Secured Party in connection with the protection, preservation or enforcement of its rights under any Finance Document; and
- (b) all moneys, obligations and liabilities due, owing or incurred in respect of any variations or increases in the amount or composition of the facilities provided under any Finance Document or the obligations and liabilities imposed under such documents.

**"cost"** includes, but is not limited to, tax costs, registration taxes payable on the creation or enforcement or for the continuance of any Security, stamp duties, out-of-pocket expenses, and other fees and expenses incurred (or which would be incurred) by the relevant member of the Group or any of its direct or indirect Holding Companies, Subsidiaries or Affiliates directly as a consequence of the provision of relevant Security or guarantees.

2. **SCOPE OF THE AGREED SECURITY PRINCIPLES**

Guarantees and Security to be provided pursuant to this Agreement will be given in accordance with the Agreed Security Principles set out in this Schedule.

3. **CONSIDERATIONS**

3.1 Subject to paragraph 3.2 below, Security and/or guarantees shall not be created or perfected to the fullest extent possible if it would result in:

- (a) any breach of corporate benefit, financial assistance, fraudulent preference, thin capitalisation rules or any other general statutory laws or regulations (or analogous restrictions) of any applicable jurisdiction;
- (b) the officers of a member of the Group contravening their fiduciary duties or any legal prohibition and/or result in them incurring civil or criminal liability; or
- (c) costs that, in the opinion of the Agent (acting reasonably), will be disproportionate to the benefit to be obtained by the Secured Parties,

provided that the relevant member of the Group will use its best endeavours (including the payment of reasonable fees, cost and expenses if necessary) to overcome any such obstacle, including ensuring that each Obligor has positive net assets when it executes the Transaction Security and the guarantees contained in the Finance Documents.

Hogan Lovells

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3.2 The considerations in paragraph 3.1(c) shall not apply to the Security and guarantees required from the Original Obligors, which those Obligors have agreed to provide irrespective of cost or materiality.

4. **OBLIGATIONS TO BE SECURED**

4.1 Subject to paragraph 4.3 below, the obligations to be secured are the Secured Liabilities and, for ease of reference, this definition (as well as the definition of Secured Parties from this Agreement) should to the extent legally possible be incorporated in all material respects into each Transaction Security Document.

4.2 Each guarantee will be an upstream, cross-stream and downstream guarantee.

4.3 If it is necessary to do so, the Secured Liabilities will be limited:

- (a) to avoid any breach of corporate benefit, financial assistance, fraudulent preference or thin capitalisation rules or other general statutory laws or regulations (or analogous restrictions) of any applicable jurisdiction; and
- (b) to avoid any significant risk to officers of the relevant member of the Group of contravention of their fiduciary duties and/or civil or criminal liability.

4.4 The extent of the Secured Liabilities may be limited, in accordance with market practice in the relevant jurisdiction, to minimise stamp duty, notarisation, registration or other applicable fees, taxes and duties where the Majority Lenders have agreed that, in their opinion, the benefit of increasing the amount recoverable under the relevant Security or guarantee is, disproportionate to the level of such additional fee, tax or duty. Any financial limitation on the amount recoverable under the Secured Liabilities shall take into consideration the underlying value of the assets being provided as Security.

4.5 To the extent legally possible, all guarantees and Security shall be given in favour of the Security Agent and not the Secured Parties individually. "Parallel debt" provisions will be used where necessary in a particular jurisdiction.

4.6 To the greatest extent possible, no action should be required to be taken in relation to any guarantees and/or Security when any Secured Party transfers any of its interests to a new participant.

5. **THE SECURITY**

5.1 The Security is to be granted in favour of the Security Agent on behalf of each of the Secured Parties and will be first ranking.

5.2 The Security Agent will hold one set of Security for all of the Secured Parties unless a separate Security is required by local law for any class of the Secured Parties.

6. **GENERAL TERMS OF THE SECURITY**

6.1 Where appropriate, defined terms in the Transaction Security Documents should mirror those in this Agreement.

6.2 The parties to this Agreement agree to negotiate the form of each Transaction Security Document in good faith and will ensure that all documentation required to be entered into as a condition precedent to first drawdown under this Agreement (or immediately thereafter) is in a finally agreed form as soon as reasonably practicable after the Original Effective Date. The form of guarantee for each Original Guarantor is set out in Clause 19 (*Guarantee*)



*and indemnity*) of this Agreement and, with respect to any Additional Guarantor, the form of guarantee shall be subject to any limitations consistent with these Agreed Security Principles which shall be set out in the Accession Deed applicable to such Additional Guarantor.

- 6.3 The Security shall, to the extent possible under local law, be enforceable on the occurrence of a Declared Default.
- 6.4 Security will, where possible and practical, automatically create Security over future assets of the same type as those already secured.
- 6.5 Unless required by local law, the circumstances in which any guarantee or Security shall be released should not be dealt with in individual security documents.
- 6.6 Information such as lists of assets, will be provided if, and only to the extent, required by local law to be provided to perfect or register the security and, unless required to be provided by local law more frequently, be provided upon execution of a security document and thereafter:
- (a) in the case of lists of accounts receivable, quarterly;
  - (b) in the case of lists of tangible assets, semi-annually; and
  - (c) in the case of other lists, annually,

or, following an Event of Default which is continuing, on the Security Agent's reasonable request.

7. **UNDERTAKINGS/REPRESENTATIONS AND WARRANTIES**

Any representations, warranties or undertakings which are required to be included in any Transaction Security Document shall reflect (to the extent to which the subject matter of such representation, warranty and undertaking is the same as the corresponding representation, warranty and undertaking in this Agreement) the commercial deal set out in this Agreement (save to the extent that Secured Parties' local counsel deem it necessary to include any further provisions (or deviate from those contained in this Agreement) in order to protect or preserve the Security granted to the Secured Parties).

8. **GOVERNING LAW**

8.1 Unless granted under a global security document governed by the law of the jurisdiction of an Obligor or under English law, all Security (other than share Security) shall be governed by the law of the jurisdiction of incorporation of that Obligor or, in the case of a US Obligor, the law of New York.

8.2 Security over shares shall be governed by the laws of the country in which the entity whose shares are being secured is incorporated, or, in the case of a US Obligor, the law of New York, and not by the laws of the country in which the Obligor granting the Security is incorporated.

9. **SPECIFIC ASSET SECURITY**

9.1 **Bank accounts**

- (a) An Obligor shall grant Security over all of its bank accounts in existence at the Original Effective Date (and thereafter shall grant such security over future bank

accounts but shall be free to deal with those accounts in the course of its business until a Declared Default, save in respect of cash collateral and mandatory prepayment holding accounts.

- (b) If required by local law to perfect the Security, notice of the Security will be served on the account bank within five business days of the Security being granted and the Obligor shall use its reasonable endeavours to obtain the account bank's agreement in principle to acknowledge that notice and, subsequently, an acknowledgement of that notice.
- (c) Any Security over bank accounts shall be subject to any prior security interests in favour of the account bank which are created either by law or in the standard terms and conditions of the account bank provided that such prior security interests must only secure fees and costs of such account bank. The notice of security must request these are waived by the account bank but the Obligor shall not be required to change its banking arrangements if these security interests are not waived or only partially waived.
- (d) If required under local law security over bank accounts will be registered.
- (e) The foregoing clauses (a) through (d) do not apply to bank accounts located in the United States. For any bank account maintained in the United States, (other than an Excluded Account), the applicable Obligor shall be required to provide a customary deposit account control agreement covering such bank account.

## 9.2 Insurance policies

- (a) All insurance policies shall be charged in favour of the Secured Parties except for third party liability insurance and insurance in favour of employees (to the extent permissible by applicable law).
- (b) Notice of the Security will be served on the insurance provider within five business days of the Security being granted and the Obligor shall use its reasonable endeavours to obtain the insurance provider's agreement in principle to acknowledge that notice and, subsequently, an acknowledgement of that notice.

## 9.3 Intellectual Property

- (a) No Security shall be granted over any Intellectual Property which cannot be secured under the terms of the relevant licensing agreement (after taking into account any relevant provisions of applicable law that may override such anti-encumbrance provisions) provided that reasonable endeavours to obtain consent to charging any such Intellectual Property shall be used by the relevant Obligor if the relevant Intellectual Property right is material. Subject to the foregoing, no notice shall be prepared or given to any third party from whom Intellectual Property is licensed until an Event of Default.
- (b) Security over Intellectual Property will be registered at the relevant registry in the United States in accordance with the terms of any New York law security agreement. No registrations will be required at any other national or supra-national registry.

9.4 **Trade receivables**

- (a) If an Obligor grants Security over its trade receivables it shall be free to deal with those receivables in the course of its business until the occurrence of a Declared Default.
- (b) No notice of security may be served until the occurrence of a Declared Default.
- (c) If required under local law Security over trade receivables will be registered.
- (d) Any list of trade receivables required shall to the extent practicable include details of the underlying contracts and/or debtors to the extent reasonably considered necessary by the Security Agent.

9.5 **Shares**

- (a) Each member of the Group shall grant a charge over the shares in its subsidiary if that subsidiary is an Obligor.
- (b) Until the occurrence of a Declared Default, the Obligor executing a share charge will be permitted to retain and to exercise voting rights to any shares charged by it in a manner which does not adversely affect the validity or enforceability of the Security or cause an Event of Default to occur and the company whose shares have been charged will be permitted to pay dividends to the Obligor in those circumstances.
- (c) Where customary or required by law, at the time of execution of the share charge, the share certificate and a stock transfer form executed in blank will be provided to the Security Agent and where required by law the share certificate or shareholders register will be endorsed or written up and the endorsed share certificate or a copy of the written up register provided to the Security Agent.
- (d) Unless the restriction is required by law, the constitutional documents of the company whose shares have been charged will be amended to remove any restriction on the transfer or the registration of the transfer of the shares on enforcement of the Security granted over them.

9.6 **Real estate**

- (a) Mortgages will be required only with respect to real property with a market value in excess of \$5,000,000 (or its equivalent). No mortgages will be required in relation to leased property in the United States.
- (b) Subject to Clause 23.33 (*Landlord waivers*), no Obligor will be required to obtain any landlord's consent.

**SIGNATURES**

**[NOT RESTATED]**

Hogan Lovells

**CERTIFICATION PURSUANT TO  
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,  
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Bobby Gaspar, certify that:

1. I have reviewed this quarterly report of Orchard Therapeutics plc;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 4, 2021

By: \_\_\_\_\_ /s/ Bobby Gaspar  
**Bobby Gaspar**  
**Chief Executive Officer**

**CERTIFICATION PURSUANT TO  
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,  
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Frank E. Thomas, certify that:

1. I have reviewed this quarterly report of Orchard Therapeutics plc;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 4, 2021

By: \_\_\_\_\_ /s/ Frank E. Thomas

**Frank E. Thomas**  
**President and Chief Operating Officer**

**CERTIFICATION PURSUANT TO  
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report of Orchard Therapeutics plc(the "Company") on Form 10-Q for the period ending June 30, 2021 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), each of the undersigned officers does hereby certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

Date: August 4, 2021

By: \_\_\_\_\_ /s/ Bobby Gaspar  
**Bobby Gaspar**  
**Chief Executive Officer**  
(Principal Executive Officer)

Date: August 4, 2021

By: \_\_\_\_\_ /s/ Frank E. Thomas  
**Frank E. Thomas**  
**President and Chief Operating Officer**  
(Principal Financial Officer and Principal Accounting Officer)