UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER
PURSUANT TO RULE 13a-16 OR 15d-16
UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the Month of December 2018

Commission File Number: 001-38722

ORCHARD THERAPEUTICS PLC

(Translation of registrant's name into English)

108 Cannon Street
London EC4N 6EU
United Kingdom
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F ☒ Form 40-F ☐

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1): ☐

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7): ☐

On December 14, 2018, Orchard Therapeutics plc issued a press release, a copy of which is attached hereto as Exhibit 99.1.

EXHIBITS

Exhibit	Description
99.1	Press Release dated December 14, 2018

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: December 14, 2018

By: /s/ Frank E. Thomas
Frank E. Thomas
Chief Financial Officer

Exhibit 99.1

Orchard Therapeutics and SIRION Biotech Announce Licensing Agreement to Enhance Gene Therapy Manufacturing Efficiency

BOSTON, USA, LONDON, UK, and MARTINSRIED, Germany, December 14, 2018 – Orchard Therapeutics (NASDAQ: ORTX), a leading commercial-stage biopharmaceutical company dedicated to transforming the lives of patients with serious and life-threatening rare diseases through innovative gene therapies, and SIRION Biotech GmbH today announced the entry into a license agreement, pursuant to which Orchard has licensed SIRION's LentiBOOST™ technology to enhance manufacturing efficiency for certain of Orchard's *ex vivo* autologous hematopoietic stem cell gene therapy drug candidates.

"At Orchard Therapeutics, we are establishing manufacturing capabilities to deliver potentially transformative gene therapy products to rare disease patients around the globe. Optimization of lentiviral transduction through a technology such as LentiBOOST™, along with the build-out of our recently announced manufacturing facility, are representative of our continued efforts to increase efficiencies and further streamline our approach to manufacturing gene therapy candidates," said Stewart Craig, Ph.D., chief manufacturing officer of Orchard. "Current studies using LentiBOOST™ in our laboratories have resulted in encouraging data, and we look forward to examining the impact on our portfolio of gene therapy product candidates."

Under the terms of the agreement, SIRION will provide Orchard with a license to its proprietary lentiviral transduction enhancer LentiBOOST™ for development and commercialization activities for select Orchard programs. SIRION will be entitled to upfront and milestone payments and is eligible to receive royalties on net sales of future products that utilize the LentiBOOSTTM technology.

"LentiBOOST™ was designed to enhance lentiviral transduction performance for difficult cell types like primary T-cells and hematopoietic stem cells," said Dr. Christian Thirion, founder and chief executive officer of SIRION. "We make our technology available to a wide range of companies and academic agencies – from explorative research hospitals to commercial gene therapy companies. We are delighted that the LentiBOOST™ technology may help Orchard further enhance the efficiency of its lentiviral-based manufacturing processes."

About Orchard Therapeutics

Orchard Therapeutics is a fully integrated commercial-stage biopharmaceutical company dedicated to transforming the lives of patients with serious and life-threatening rare diseases through innovative gene therapies.

Orchard's portfolio of autologous *ex vivo* gene therapies includes Strimvelis, the first autologous *ex vivo* gene therapy approved by the European Medicines Agency for adenosine deaminase severe combined immunodeficiency (ADA-SCID). Additional programs for primary immune deficiencies, neurometabolic disorders and hemoglobinopathies include three advanced registrational studies for ADA-SCID, metachromatic leukodystrophy (MLD) and Wiskott-Aldrich syndrome (WAS), clinical programs for X-linked chronic granulomatous disease (X-CGD) and transfusion dependent beta-thalassemia (TDBT), as well as an extensive preclinical pipeline.

Orchard currently has offices in the U.K. and the U.S., including London, San Francisco and Boston.

About SIRION Biotech GmbH

SIRION Biotech was founded in 2005 with the goal to spark a new generation of viral vector technologies for gene and cell therapy as well as vaccine development. This meant evolving novel therapeutic viral vectors and technology platforms based on lenti-, adeno-, - and adeno-associated viruses, to expedite its partners' advances in drug development. LentiBOOST™ is applied in a couple

of clinical trials from early stage clinical phase I/II up to late stage clinical phase III trials and demonstrated clinical success in improving transduction of the therapeutic vector.

Forward-Looking Statements

This press release contains certain forward-looking statements which are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Such forward-looking statements may be identified by words such as “anticipates,” “believes,” “expects,” “intends,” “projects,” “anticipates,” and “future” or similar expressions that are intended to identify forward-looking statements. Forward-looking statements include express or implied statements relating to, among other things, the ability of LentiBOOST™ technology to improve efficiencies in drug product manufacturing processes and the results of any pre-clinical and clinical trials of Orchard’s product candidates using LentiBOOST™ technology. These statements are neither promises nor guarantees, but are subject to a variety of risks and uncertainties, many of which are beyond Orchard’s control, which could cause actual results to differ materially from those contemplated in these forward-looking statements. In particular, the risks and uncertainties include, without limitation, the risk that expected outcomes from the license agreement with SIRION Biotech GmbH, including synergies and improved efficiencies in manufacturing processes, may not be achieved. Orchard undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as may be required by law. For additional disclosure regarding these and other risks faced by Orchard, see the disclosure contained in Orchard’s public filings with the Securities and Exchange Commission.

Contacts
For Orchard Therapeutics:
Corporate contact
Katie Payne
Orchard Therapeutics
+1 202-669-6786
katie.payne@orchard-tx.com

Media contact

Allison Blum, Ph.D.
LifeSci Public Relations
+1 516-655-0842
Allison@lifescipublicrelations.com

For SIRION Biotech
Corporate contact
Dieter Lingelbach, COO
Sirion Biotech
+49 89-700-96199-14
lingelbach@sirion-biotech.com

Licensing Contact
Sabine Ott, Ph.D., VP Licensing & BD
Sirion Biotech
+49 89-700-96199-19
ott@sirion-biotech.com