UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

Current Report
Pursuant to Section 13 or 15(d) of
the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported)**: January 5, 2018**

ADAPTIMMUNE THERAPEUTICS PLC

(Exact name of registrant as specified in its charter)

England and Wales	**1-37368**	**Not Applicable**
(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)

60 Jubilee Avenue, Milton Park
Abingdon, Oxfordshire OX14 4RX
United Kingdom
(Address of principal executive offices, including zip code)

(44) 1235 430000
(Registrant's telephone number, including area code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- ☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- ☐ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- ☐ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- ☐ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 §230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company ☒

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.☐

Item 1.01 Entry into a Material Definitive Agreement.

On January 5, 2018, Adaptimmune Therapeutics plc (the "Company" or "Adaptimmune") entered into an agreement with Cell and Gene Therapy Catapult (the "Agreement") for vector production in the UK. The Agreement is for a term of five years with earlier termination available to both parties on provision of 12 months' notice. Termination is also possible in the event of material breach of the Agreement and insolvency of a party.

The Agreement will enable Adaptimmune to have its own dedicated vector manufacturing space in the UK. It will ensure vector supply production beyond 2020 for ongoing studies with all three SPEAR T-cell therapies, MAGE-A4, MAGE-A10 and AFP.

The module, in which Adaptimmune will use its own novel vector manufacturing process and be responsible for operation of the manufacturing process, is located in the UK-based CGT Manufacturing Centre. The CGT manufacturing Centre is a Good Manufacturing Practice (GMP) facility designed to enable the development of commercial scale manufacturing systems in cell and gene therapy by offering a full suite of GMP facilities, support and expertise.

The foregoing description of the Agreement does not purport to be complete and is qualified in its entirety by reference to the full text of the Agreement, a copy of which will be filed as an exhibit to the Company's Annual Report on Form 10-K for the year ended December 31, 2017.

Item 8.01. Other Events.

On January 8, 2018, the Company issued a press release announcing the successful manufacturing of the first SPEAR T-cells for a patient at its Navy Yard facility in Philadelphia and the Agreement. The press release is furnished as Exhibit 99.1 to this report and is incorporated by reference herein.

On January 8, 2018, the Company issued a press release announcing initial safety date from its two ongoing pilot studies of SPEAR T-cells targeting MAGE-A10. The press release is furnished as Exhibit 99.2 to this report and is incorporated by reference herein.

The information in Item 8.01 of this Form 8-K (including the attached Exhibit 99.1 and the attached Exhibit 99.2) shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, (the "Exchange Act"), or incorporated by reference in any filing made by the Company under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by the Company by specific reference in such a filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.	Description of Exhibit
99.1	Press release regarding SPEAR T-cell manufacturing and agreement with Cell and Gene Therapy Catapult dated January 8, 2018
99.2	Press release announcing safety data from pilot studies with MAGE-A10 SPEAR T-cells dated January 8, 2018

Exhibit Index

Exhibit No.	Description of Exhibit
99.1	Press release regarding SPEAR T-cell manufacturing and agreement with Cell and Gene Therapy Catapult dated January 8, 2018.
99.2	Press release announcing safety data from pilot studies with MAGE-A10 SPEAR T-cells dated January 8, 2018.

SIGNATURES

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

ADAPTIMMUNE THERAPEUTICS PLC

Date: January 8, 2018

By: /s/ Margaret Henry
Name: Margaret Henry
Title: Corporate Secretary

Adaptimmune Announces Two Manufacturing Achievements on Its way to Become the First Fully Integrated TCR T-cell Therapy Company

- Successful Manufacturing of SPEAR T-cells for a Patient at its Navy Yard Site and Agreement with Cell and Gene Therapy Catapult to Increase Vector Manufacturing Capacity -

PHILADELPHIA, Pa. and OXFORD, UK., January 8, 2018 — Adaptimmune Therapeutics plc (Nasdaq: ADAP), a leader in T-cell therapy to treat cancer, today announced that it has successfully manufactured the first SPEAR T-cells for a patient at its Navy Yard facility in Philadelphia. In addition, Adaptimmune announced an agreement with Cell and Gene Therapy Catapult for vector production in the UK, which will ensure vector supply for its ongoing and future clinical studies.

"We are making great strides to becoming a fully integrated cell therapy company. Our Navy Yard facility is now fully operational producing SPEAR T-cells for patients. In addition, we have vector supply into 2019, and the initiation of our own vector manufacturing capability at the Catapult facility will extend vector supply further," said James Noble, Adaptimmune's Chief Executive Officer. "We will continue to work with our cell manufacturing partner PCT, now part of Hitachi, where we have dedicated space and personnel for production of our SPEAR T-cells, as well as our other vector suppliers. Having these dedicated resources both in-house and through external partnerships is essential to ensure our future success as a fully integrated cell therapy company."

First SPEAR T-cells manufactured at the Navy Yard

The first SPEAR T-cells have been successfully manufactured by the Adaptimmune team at our own Navy Yard headquarters for a patient in the first dose cohort of the ongoing MAGE-A4 multiple tumor study in bladder, melanoma, head & neck, ovarian, non-small cell lung, esophageal, and gastric cancers.

The manufacturing facility at the Navy Yard can deliver cells for up to 300 patients per year, with the possibility of expansion that would enable manufacture for up to 1000 patients per year. In addition to production at its wholly-owned manufacturing facility at the Navy Yard, Adaptimmune will continue working with the PCT team to manufacture SPEAR T-cells.

Vector supply extended to beyond 2020

The agreement, which was executed on January 5, 2018 with Cell and Gene Therapy (CGT) Catapult, will enable Adaptimmune to have its own dedicated vector manufacturing space in the UK. It will ensure vector supply production beyond 2020 for ongoing studies with all three SPEAR T-cell therapies, MAGE-A4, MAGE-A10 and AFP.

The module, in which Adaptimmune will use its own novel vector manufacturing process and be responsible for operation of the manufacturing process, is located in the UK-based CGT Manufacturing Centre. The CGT manufacturing Centre is a Good Manufacturing Practice (GMP) facility designed to enable the development of commercial scale manufacturing systems in cell and gene therapy by offering a full suite of GMP facilities, support and expertise.

About Adaptimmune

Adaptimmune is a clinical-stage biopharmaceutical company focused on the development of novel cancer immunotherapy products. The Company's unique SPEAR (Specific Peptide Enhanced Affinity Receptor) T-cell platform enables the engineering of T-cells to target and destroy cancer, including solid tumors. Adaptimmune is currently conducting clinical trials with SPEAR T-cells targeting MAGE-A4, -A10, and AFP

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across several solid tumor indications. GlaxoSmithKline plc (LSE:GSK) (NYSE:GSK) exercised its option to exclusively license the right to research, develop, and commercialize Adaptimmune's NY-ESO SPEAR T-cell therapy program in September 2017. Transition of this program to GSK is ongoing. The Company is located in Philadelphia, USA and Oxfordshire, U.K. For more information, please visit http://www.adaptimmune.com

Forward-Looking Statements

This release contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 (PSLRA). These forward-looking statements involve certain risks and uncertainties. Such risks and uncertainties could cause our actual results to differ materially from those indicated by such forward-looking statements, and include, without limitation: the success, cost and timing of our product development activities and clinical trials and our ability to successfully advance our TCR therapeutic candidates through the regulatory and commercialization processes. For a further description of the risks and uncertainties that could cause our actual results to differ materially from those expressed in these forward-looking statements, as well as risks relating to our business in general, we refer you to our Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission (SEC) on November 2, 2017, and our other SEC filings. The forward-looking statements contained in this press release speak only as of the date the statements were made and we do not undertake any obligation to update such forward-looking statements to reflect subsequent events or circumstances.

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Adaptimmune Announces Positive Safety Data from Pilot Studies with MAGE-A10 SPEAR T-cells and First Patient to Receive 1 billion Target Cell Dose

PHILADELPHIA, Pa. and OXFORD, UK., January 8, 2018 — Adaptimmune Therapeutics plc (Nasdaq: ADAP), a leader in T-cell therapy to treat cancer, today announced initial safety data from its two ongoing pilot studies of SPEAR T-cells targeting MAGE-A10, one in non-small cell lung cancer (NSCLC) and a triple tumor study in bladder, melanoma, and head & neck cancers.

To date, 8 patients have each received 100 million transduced MAGE-A10 SPEAR T-cells in the first dose cohorts of both studies. No evidence of toxicity related to off-target binding or alloreactivity has been observed. There have been no reports of neurotoxicity safety events similar to CAR-T cell-related encephalopathy syndrome (CRES) (1). In the NSCLC study, there has been one serious adverse event of cytokine release syndrome (CRS), a Grade 4 event that resolved with treatment. This event led to cohort 1 expansion from 3 to 6 patients. No dose limiting toxicities were observed in cohort 1 of the triple tumor study.

Following review by the independent safety review committee (SRC), the decision has been made to escalate to the next dose of 1 billion transduced MAGE-A10 SPEAR T-cells in the triple tumor study. This was the therapeutic threshold dose observed with SPEAR T-cells targeting NY-ESO in the synovial sarcoma pilot study. The decision to escalate in the NSCLC cohort will be reviewed by the SRC following dosing of the 6th patient.

“These safety results, with one of our wholly-owned SPEAR T-cell treatments, and the upcoming escalation to the next dose in the triple tumor study are significant as they allow us to progress treating patients in these studies at a potentially active cell dose,” said Rafael Amado, Adaptimmune’s Chief Medical Officer. “As data accumulate throughout 2018, we will continue to share meaningful safety and efficacy data from the MAGE-A10 and MAGE-A4 programs at relevant scientific venues.”

Details about Ongoing Trials with SPEAR T-cells Targeting MAGE-A10

There are two ongoing clinical trials with SPEAR T-cells targeting MAGE-A10; one in non-small cell lung cancer (NSCLC), and a triple tumor study in bladder, melanoma, and head & neck cancers. Both studies are dose escalation trials that evaluate three doses of transduced SPEAR T-cells, administered after a lymphodepleting chemotherapy regimen. The three doses being evaluated are 100 million, 1 billion and 1 to 5 billion transduced SPEAR T-cells.

NSCLC study: In this study, five patients have received SPEAR T-cells in the first group of Cohort 1 (1a without fludarabine) (2), and there was one report of Grade 4 CRS that resolved with treatment.

Triple Tumor Study: Three patients have been dosed in the first cohort. There were no reports of CRS greater or equal to Grade 3, and all cases resolved with supportive treatment.

About Adaptimmune

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(1) Chimeric antigen receptor T-cell therapy - assessment and management of toxicities.*Nat Rev Clin Oncol.* 2017 Sep 19.
(2) In the NSCLC study, the first cohort of patients is composed of 2 groups: Group 1a received Cytoxan only at 1800mg/m(2) for two days without fludarabine for lymphodepletion. All other patients in MAGE-A10 and MAGE-A4 studies are to receive or have received Cytoxan (600mg/m^2/day) and fludarabine (30mg/m^2/day) for 3 days, which was the regimen used in Cohort 4 of the synovial sarcoma pilot study with SPEAR T-cells targeting NY-ESO.

Adaptimmune is currently conducting clinical trials with SPEAR T-cells targeting MAGE-A4, -A10, and AFP across several solid tumor indications. GlaxoSmithKline plc (LSE:GSK) (NYSE:GSK) exercised its option to exclusively license the right to research, develop, and commercialize Adaptimmune’s NY-ESO SPEAR T-cell therapy program in September 2017. Transition of this program to GSK is ongoing. The Company is located in Philadelphia, USA and Oxfordshire, U.K. For more information, please visit http://www.adaptimmune.com

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