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
OF THE SECURITIES EXCHANGE ACT OF 1934

For the month of September 2016

Commission File Number 001-36866

SUMMIT THERAPEUTICS PLC
(Translation of registrant's name into English)

85b Park Drive
Milton Park, Abingdon
Oxfordshire OX14 4RY
United Kingdom
(Address of principal executive office)

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): ☐

Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934:

YES ☐ NO ☒

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):

On September 26, 2016, Summit Therapeutics plc issued a press release announcing that it has received Fast Track designation from the U.S. Food and Drug Administration for ezutromid in the treatment of Duchenne muscular dystrophy. The related press release is attached hereto as Exhibit 99.1.

The information in this Report on Form 6-K, including Exhibit 99.1, 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 under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

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.

SUMMIT THERAPEUTICS PLC

By: /s/ Erik Ostrowski
Erik Ostrowski
Chief Financial Officer

Date: September 26, 2016

EXHIBIT INDEX

Exhibit Number	Description
99.1	Press release dated September 26, 2016

Exhibit 99.1

Summit Therapeutics plc
("Summit" or "the Company")

SUMMIT RECEIVES FAST TRACK DESIGNATION FROM US FDA FOR EZUTROMID IN THE TREATMENT OF DUCHENNE MUSCULAR DYSTROPHY

Oxford, UK, 26 September 2016 – Summit Therapeutics plc (NASDAQ: SMMT, AIM: SUMM), the drug discovery and development company advancing therapies for Duchenne muscular dystrophy ('DMD') and *Clostridium difficile* infection, today announces it has received Fast Track designation from the US Food and Drug Administration ('FDA') for ezutromid in the treatment of DMD. Ezutromid is a utrophin modulator and represents a potential disease modifying treatment for all patients with the fatal muscle wasting disease DMD.

"Fast Track designation underscores the importance that the FDA places on developing new treatments for life-threatening disorders, such as DMD, and aligns well with our recently outlined strategy to accelerate the development of ezutromid to market," **said Glyn Edwards, Chief Executive Officer of Summit.** *"As a utrophin modulator, ezutromid has the potential to significantly advance the state of care for all patients with DMD, regardless of their underlying genetic fault. We look forward to ezutromid's continued progress in our ongoing Phase 2 clinical trial, PhaseOut DMD."*

Fast Track is a process designed to facilitate the development and expedite the review of drugs to treat serious conditions that address an unmet medical need. Advantages of Fast Track designation include opportunities for more frequent interactions with the FDA during all aspects of development, submission of a New Drug Application ('NDA') on a rolling basis, and eligibility for accelerated approval and priority review. This designation is in addition to ezutromid being granted Orphan Drug designation by the FDA and the European Medicines Agency.

About Utrophin Modulation in DMD

DMD is a progressive muscle wasting disease that affects around 50,000 boys and young men in the developed world. The disease is caused by different genetic faults in the gene that encodes dystrophin, a protein that is essential for the healthy function of all muscles. There is currently no cure for DMD and life expectancy is into the late twenties. Utrophin protein is functionally and structurally similar to dystrophin. In preclinical studies, the continued expression of utrophin has a meaningful, positive effect on muscle performance. Summit believes that utrophin modulation has the potential to slow down or even stop the progression of DMD, regardless of the underlying dystrophin gene mutation. Summit also believes that utrophin modulation could potentially be complementary to other therapeutic approaches for DMD. The Company's lead utrophin modulator, ezutromid, is an orally administered, small molecule. DMD is an orphan disease, and the US Food and Drug Administration and the European Medicines Agency have granted Orphan Drug designation to ezutromid. Orphan drugs receive a number of benefits including additional regulatory support and a period of market exclusivity following approval. In addition, ezutromid has been granted Fast Track designation by the FDA.

About Summit Therapeutics

Summit is a biopharmaceutical company focused on the discovery, development and commercialisation of novel medicines for indications for which there are no existing or only inadequate therapies. Summit is conducting clinical programs focused on the genetic disease Duchenne muscular dystrophy and the infectious disease *C. difficile* infection. Further information is available at www.summitplc.com and Summit can be followed on Twitter (@summitplc).

For more information, please contact:

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Forward-looking Statements

Any statements in this press release about Summit's future expectations, plans and prospects, including but not limited to, statements about the clinical and preclinical development of Summit's product candidates, the therapeutic potential of Summit's product candidates, and the timing of initiation, completion and availability of data from clinical trials, and other statements containing the words "anticipate," "believe," "continue," "could," "estimate," "expect," "intend," "may," "plan," "potential," "predict," "project," "should," "target," "would," and similar expressions, constitute forward looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including: the uncertainties inherent in the initiation of future clinical trials, availability and timing of data from on-going and future clinical trials and the results of such trials, whether preliminary results from a clinical trial will be predictive of the final results of that trial or whether results of early clinical trials or preclinical studies will be indicative of the results of later clinical trials, expectations for regulatory approvals, availability of funding sufficient for Summit's foreseeable and unforeseeable operating expenses and capital expenditure requirements and other factors discussed in the "Risk Factors" section of filings that Summit makes with the Securities and Exchange Commission including Summit's Annual Report on Form 20-F for the fiscal year ended January 31, 2016. Accordingly readers should not place undue reliance on forward looking statements or information. In addition, any forward looking statements included in this press release represent Summit's views only as of the date of this release and should not be relied upon as representing Summit's views as of any subsequent date. Summit specifically disclaims any obligation to update any forward-looking statements included in this press release.

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