
**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 March 2018

Commission File Number: 001-37847

MOTIF BIO PLC
(Translation of registrant's name into English)

**125 Park Avenue
25th Floor
New York, New York 10017**
(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):

On March 20, 2018, Motif Bio plc (the “Company”) issued a regulatory news service announcement, a copy of which is attached as Exhibit 99.1 to this report on Form 6-K, announcing an update on the NDA submission for iclaprim.

This report on Form 6-K (including the exhibits hereto) shall not be deemed to be “filed” for purposes of the Securities Exchange Act of 1934, as amended, and shall not be incorporated by reference into any filing under the Securities Act of 1933, as amended, except as shall be expressly set forth by specific reference in such filing.

Exhibits

Exhibit 99.1 [Regulatory news service announcement issued by Motif Bio plc, dated March 20, 2018, entitled “Motif Bio Update on NDA Submission for Iclaprim”](#)

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.

MOTIF BIO PLC

Date: March 20, 2018

By: /s/ Graham Lumsden
Name: Graham Lumsden
Title: Chief Executive Officer

Motif Bio Update on NDA Submission for Iclaprim

NEW YORK, March 20, 2018 (GLOBE NEWSWIRE) – Motif Bio plc (AIM:MTFB) (NASDAQ:MTFB), a clinical-stage biopharmaceutical company specialising in developing novel antibiotics, today provided an update on the status and timeline for submission of its New Drug Application (NDA) to the U.S. Food & Drug Administration (FDA) for its targeted, Gram-positive investigational antibiotic, iclaprim, for the treatment of acute bacterial skin and skin structure infections (ABSSSI). In consultation with its advisers, the Company has decided that in order to ensure a complete and high quality submission, it would be prudent to take additional time and consequently, the Company now expects that the NDA will be submitted to the FDA during the second quarter of 2018.

Graham Lumsden, Chief Executive Officer, said: *“There are many components that go into an NDA submission and our aggressive timeline was contingent upon all outstanding items being completed to provide sufficient time to quality check and then publish the document. Most components are complete, but given the importance of the submission, we made the decision that it was in the best interests of the Company and all stakeholders to allow more time to ensure we submit the strongest possible application.”*

The person responsible for the release of this announcement on behalf of Motif Bio plc is Jonathan Gold, Interim Chief Financial Officer.

For further information please contact:

Motif Bio plc info@motifbio.com
Graham Lumsden (Chief Executive Officer)

Peel Hunt LLP (NOMAD & BROKER) + 44 (0)20 7418 8900
Dr Christopher Golden
Oliver Jackson

Northland Capital Partners Limited (BROKER) +44 (0)203 861 6625
David Hignell/John Howes/Rob Rees

Walbrook PR Ltd. (UK FINANCIAL PR & IR) +44 (0) 20 7933 8780
Paul McManus/Helen Cresswell/
Lianne Cawthorne

MC Services AG (EUROPEAN IR) +49 (0)89 210 2280
Raimund Gabriel raimund.gabriel@mc-services.eu

The Trout Group (US IR) + 1 (646) 378-2936
Meggie Purcell mpurcell@troutgroup.com

Russo Partners (US PR) +1 (858) 717-2310
David Schull david.schull@russopartnersllc.com
Travis Kruse, Ph.D. travis.kruse@russopartnersllc.com

Notes to Editors

About Iclaprim

Iclaprim is a novel investigational antibiotic that has a different and underutilised mechanism of action compared to other antibiotics. Iclaprim exhibits potent *in vitro* activity against Gram-positive clinical isolates of many genera of staphylococci, including methicillin-resistant *Staphylococcus aureus* (MRSA). Iclaprim is rapidly bactericidal, achieving 99.9% *in vitro* kill against MRSA within 4 to 6 hours of drug exposure versus 8 to 10 hours for vancomycin. To date, iclaprim has been studied in over 1,400 patients and healthy volunteers. In clinical studies iclaprim has been administered intravenously at a fixed dose with no dosage adjustment required in patients with renal impairment or in obese patients. The iclaprim fixed dose may, if approved, help reduce the resources required in hospitals since dosage adjustment by health care professionals is avoided and overall hospital treatment costs may be lower, especially in patients with renal impairment.

About Motif Bio

Motif Bio plc (AIM:MTFB) (NASDAQ:MTFB) is a clinical-stage biopharmaceutical company engaged in the research and development of novel antibiotics designed to be effective against serious and life-threatening infections in hospitalised patients caused by multi-drug resistant bacteria, including MRSA. The Company's lead product candidate, iclaprim, is being developed for high-risk MRSA patient populations. The first proposed indication, and near-term commercial opportunity, is for the treatment of ABSSSI, one of the most common bacterial infections, with 3.6 million patients hospitalised annually in the U.S. The Company believes that iclaprim may be suitable for first-line empiric therapy in ABSSSI patients, especially those with renal impairment, with or without diabetes. Unlike many standard of care antibiotics, iclaprim is only minimally cleared via the kidneys (<2% of the administered dose was recovered unchanged in the urine). No nephrotoxicity was observed with iclaprim in the REVIVE Phase 3 trials and dosage adjustment has not been required in patients with renal impairment.

Iclaprim has an underutilised mechanism of action compared to other antibiotics. Clinical and microbiology data indicate iclaprim has a targeted

Gram-positive spectrum of activity, low propensity for resistance development, fixed dose administration and favourable tolerability profile. Additionally, data support that the inactive metabolites of iclaprim clear through the kidneys. The Company also plans to develop iclaprim for hospital acquired bacterial pneumonia (HABP), including ventilator associated bacterial pneumonia (VABP), as there is a high unmet need for new therapies in this indication. A Phase 2 trial was conducted to study iclaprim in patients with HABP. Iclaprim has been studied in an animal model of pulmonary MRSA infection which mimics the pathophysiology observed in patients with cystic fibrosis. Iclaprim has been granted orphan drug designation by the U.S. FDA for the treatment of *Staphylococcus aureus* lung infections in patients with cystic fibrosis.

Iclaprim has received Qualified Infectious Disease Product (QIDP) designation from the FDA together with Fast Track status. Upon acceptance by the FDA of a New Drug Application (NDA), iclaprim will receive Priority Review status and, if approved as a New Chemical Entity, will be eligible for 10 years of market exclusivity in the U.S. from the date of first approval, under the Generating Antibiotic Incentives Now Act (the GAIN Act). In Europe, 10 years of market exclusivity is anticipated.

Forward-Looking Statements

This press release contains forward-looking statements. Words such as “expect,” “believe,” “intend,” “plan,” “continue,” “may,” “will,” “anticipate,” and similar expressions are intended to identify forward-looking statements. Forward-looking statements involve known and unknown risks, uncertainties and other important factors that may cause Motif Bio’s actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Motif Bio believes that these factors include, but are not limited to, (i) the timing, progress and the results of clinical trials for Motif Bio’s product candidates, (ii) the timing, scope or likelihood of regulatory filings and approvals for Motif Bio’s product candidates, (iii) Motif Bio’s ability to successfully commercialise its product candidates, (iv) Motif Bio’s ability to effectively market any product candidates that receive regulatory approval, (v) Motif Bio’s commercialisation, marketing and manufacturing capabilities and strategy, (vi) Motif Bio’s expectation regarding the safety and efficacy of its product candidates, (vii) the potential clinical utility and benefits of Motif Bio’s product candidates, (viii) Motif Bio’s ability to advance its product candidates through various stages of development, especially through pivotal safety and efficacy trials, (ix) Motif Bio’s estimates regarding the potential market opportunity for its product candidates, and (x) the factors discussed in the section entitled “Risk Factors” in Motif Bio’s Annual Report on Form 20-F filed with the SEC on May 1, 2017, which is available on the SEC’s web site, www.sec.gov. Motif Bio undertakes no obligation to update or revise any forward-looking statements.