

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

**Motif Bio plc**

(Name of Issuer)

**Ordinary Shares, par value £0.01 per share**

(Title of Class of Securities)

**619784 101**

(CUSIP Number)

**December 31, 2016**

(Date of Event That Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

|       |  |
|-------|--|
| 1.    | Names of Reporting Persons<br>Amphion Innovations plc  |
| <hr/> |  |
| 2.    | Check the Appropriate Box if a Member of a Group (See Instructions)  |
| (a)   | <input type="checkbox"/>   |
| (b)   | <input type="checkbox"/>   |
| <hr/> |  |
| 3.    | SEC Use Only   |
| <hr/> |  |
| 4.    | Citizenship or Place of Organization<br>Isle of Man  |
| <hr/> |  |
| 5.    | Sole Voting Power<br>34,483,024  |
| <hr/> |  |
| 6.    | Shared Voting Power<br>9,174,266   |
| <hr/> |  |
| 7.    | Sole Dispositive Power<br>34,483,024   |
| <hr/> |  |
| 8.    | Shared Dispositive Power<br>9,174,266  |
| <hr/> |  |
| 9.    | Aggregate Amount Beneficially Owned by Each Reporting Person<br>43,657,290 (1)                               |
| <hr/> |  |
| 10.   | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="checkbox"/> |
| <hr/> |  |
| 11.   | Percent of Class Represented by Amount in Row (9)<br>22.3% (2)   |
| <hr/> |  |
| 12.   | Type of Reporting Person (See Instructions)<br>CO  |
| <hr/> |  |

(1) Includes 34,384,928 ordinary shares held directly by the reporting person and 98,096 ordinary shares issuable to the Reporting Person upon the exercise of warrants that were exercisable on or within 60 days of December 31, 2016. Also includes 8,496,467 ordinary shares held directly by Amphion Innovations US, Inc. ("Amphion US"), a wholly-owned subsidiary of the Reporting Person, 318,549 ordinary shares issuable to Amphion US upon the exercise of warrants that were exercisable on or within 60 days of December 31, 2016, and 359,250 ordinary shares held directly by MSA Holdings B.S.C., a wholly-owned subsidiary of the Reporting Person.

(2) Based on 195,741,528 ordinary shares outstanding on December 29, 2016, plus 416,645 ordinary shares issuable to the Reporting Person and Amphion US upon the exercise of warrants, which were exercisable on or within 60 days of December 31, 2016.

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- Item 1(a).**            **Name of Issuer:**  
MotifBio plc (the “Company”)
- Item 1(b).**            **Address of Issuer’s Principal Executive Offices:**  
125 Park Avenue, 25<sup>th</sup> Floor  
New York, New York 10017
- Item 2(a).**            **Name of Person(s) Filing:**  
Amphion Innovations plc
- Item 2(b).**            **Address of Principal Business Office, or, if none, Residence:**  
First Names House, Victoria Road, Douglas  
Isle of Man, IM2 4DF
- Item 2(c).**            **Citizenship:**  
Isle of Man
- Item 2(d).**            **Title of Class of Securities:**  
Ordinary Shares, par value £0.01 per share
- Item 2(e).**            **CUSIP Number:**  
619784 101
- Item 3.**            **If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:**  
  
Not Applicable
- Item 4.**            **Ownership:**  
  
The information required by Items 4(a) – (c) is set forth in Rows (5) – (11) of the cover page for the Reporting Person and is incorporated herein by reference.
- Item 5.**            **Ownership of Five Percent or Less of a Class.**  
  
Not Applicable
- Item 6.**            **Ownership of More than Five Percent on Behalf of Another Person.**  
  
Not Applicable
- Item 7.**            **Identification and Classification of the Subsidiary That Acquired the Security Being Reported By the Parent Holding Company or Control Person.**  
  
Not Applicable
- Item 8.**            **Identification and Classification of Members of the Group.**  
  
Not Applicable
- Item 9.**            **Notice of Dissolution of the Group.**  
  
Not Applicable
- Item 10.**           **Certification:**  
  
Not Applicable

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

**AMPHION INNOVATIONS PLC**

Date: September 6, 2017

By: /s/ Robert Bertoldi  
Name: Robert Bertoldi  
Title: President and Chief Financial Officer

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