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**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: February 2018 (Report No. 1)

Commission File Number 001-35932

**ARCTURUS THERAPEUTICS LTD.**

(Translation of Registrant's name into English)

**10628 Science Center Drive, Suite 200  
San Diego, California 92121**

(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):

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Effective February 1, 2018, Joseph E. Payne was terminated as President and Chief Executive Officer of Arcturus Therapeutics Ltd. (the “Company”). The Company’s board of directors appointed Mark R. Herbert as Interim President, effective immediately.

This Form 6-K is incorporated by reference into the Registration Statements on Form F-3 (File No. 333- 209960) and Form S-8 (File No. 333-194875, File No. 333-202394, File No. 333-209947, File No. 333-217556 and File No. 333-221830) of the Company, filed with the Securities and Exchange Commission, to be a part thereof from the date on which this report is submitted, to the extent not superseded by documents or reports subsequently filed or furnished.

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**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.

ARCTURUS THERAPEUTICS LTD.

Date: February 2, 2018

By: /s/ Stuart Collinson  
Name: Stuart Collinson  
Title: Executive Chairman

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