

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL	
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>BARLOW JAMES F</u> <hr/> (Last) (First) (Middle) <u>C/O ARCTURUS THERAPEUTICS LTD.</u> <u>10628 SCIENCE CENTER DRIVE, SUITE 250</u> <hr/> (Street) <u>SAN DIEGO CA 92121</u> <hr/> (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) <u>01/01/2019</u>	3. Issuer Name and Ticker or Trading Symbol <u>Arcturus Therapeutics Ltd. [ARCT]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Ordinary Shares	10,000 ⁽¹⁾	D	

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date				
STOCK OPTION (right to purchase) ⁽¹⁾⁽²⁾	(2)	08/23/2028	Ordinary Shares 20,000	8	D	
STOCK OPTION (right to purchase) ⁽¹⁾⁽³⁾	(3)	08/23/2028	Ordinary Shares 10,000	8	D	
STOCK OPTION (right to purchase) ⁽¹⁾	08/24/2018	08/23/2028	Ordinary Shares 2,500	8	D	

Explanation of Responses:

- The Reporting Person is filing this form in connection with the Issuer's transition from reporting as a foreign private issuer to reporting as a domestic issuer, effective January 1, 2019.
- Vesting monthly over a two year period from August 24, 2018.
- Vesting monthly over a one year period from August 24, 2018.

/s/ James F. Barlow 01/02/2019

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 5 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.