

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

OMB Number: 3235-0104

Estimated average burden

hours per response: 0.5

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>SASSINE ANDY</u>  (Last) (First) (Middle) <u>C/O ARCTURUS THERAPEUTICS LTD.</u> <u>10628 SCIENCE CENTER DRIVE, SUITE</u> <u>250</u>  (Street) <u>SAN DIEGO CA 92121</u>  (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 <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Chief Financial Officer</u>	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 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)
<u>Ordinary Shares</u>	<u>237,596<sup>(1)</sup></u>	<u>D</u>	

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	Title	Amount or Number of Shares			
<u>STOCK OPTION (right to purchase)<sup>(1)</sup></u>	<u>(2)</u>	<u>08/23/2028</u>	<u>Ordinary Shares</u>	<u>3,750</u>	<u>8</u>	<u>D</u>	
<u>STOCK OPTION (right to purchase)<sup>(1)(3)</sup></u>	<u>(3)</u>	<u>08/23/2028</u>	<u>Ordinary Shares</u>	<u>10,000</u>	<u>8</u>	<u>D</u>	
<u>STOCK OPTION (right to purchase)<sup>(1)</sup></u>	<u>08/24/2018</u>	<u>08/23/2028</u>	<u>Ordinary Shares</u>	<u>2,500</u>	<u>8</u>	<u>D</u>	
<u>STOCK OPTION (right to purchase)<sup>(1)(3)</sup></u>	<u>(3)</u>	<u>08/23/2028</u>	<u>Ordinary Shares</u>	<u>20,000</u>	<u>8</u>	<u>D</u>	
<u>STOCK OPTION (right to purchase)<sup>(1)(4)</sup></u>	<u>(4)</u>	<u>12/31/2028</u>	<u>Ordinary Shares</u>	<u>100,000</u>	<u>4.53</u>	<u>D</u>	

## 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.
- Fully vested as of December 31, 2018.
- Vesting monthly over a one year period from August 24, 2018.
- Options to purchase 25,000 shares vest one year from the date of grant and the remainder vests in equal monthly installments over the three year period thereafter.

/s/ Andy Sassine01/02/2019

\*\* 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.