

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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>Vargeese Chandra</u> (Last) (First) (Middle) <u>C/O WAVE LIFE SCIENCES LTD.,</u> <u>733 CONCORD AVE.</u> (Street) <u>CAMBRIDGE MA 02138</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Wave Life Sciences Ltd. [WVE]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>See Remarks</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>01/23/2018</u>	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Ordinary Shares	01/23/2018		M ⁽¹⁾		2,000	A	\$2.48	11,800	D	
Ordinary Shares	01/23/2018		S ⁽¹⁾		2,000	D	\$40	9,800	D	
Ordinary Shares	01/23/2018		A		17,500 ⁽³⁾	A	\$0.00	27,300	D	

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Share Option (right to buy)	\$2.48	01/23/2018		M ⁽¹⁾			2,000	(2)	03/10/2025	Ordinary Shares	2,000	\$0.00	154,542	D	
Share Option (right to buy)	\$40.05	01/23/2018		A		35,000		(4)	01/23/2028	Ordinary Shares	35,000	\$0.00	35,000	D	

Explanation of Responses:

- The option exercise and sale reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 11, 2017.
- The incentive share option initially represented a right to purchase a total of 158,042 ordinary shares, 25% of which became exercisable on August 1, 2015, and the remaining shares vest in 36 equal monthly installments thereafter.
- Consists of restricted share units (RSUs). The RSUs vest in four equal annual installments of 25% on February 15, 2019, through February 15, 2022.
- The option vests as to 25% of the shares on February 15, 2019 and vests as to an additional 6.25% of the shares quarterly thereafter until February 15, 2022.

Remarks:

Senior Vice President, Drug Discovery

/s/ Chandra Vargeese 01/25/2018

** 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 4 (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.

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