

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

| OMB APPROVAL | |
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|---|---|--|
| 1. Name and Address of Reporting Person* <u>BOLNO PAUL</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) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>President and CEO</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>05/25/2018</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 | 05/25/2018 | | M ⁽¹⁾ | | 8,316 | A | \$2.48 | 287,258 | D | |
| Ordinary Shares | 05/25/2018 | | S ⁽¹⁾ | | 8,316 | D | \$45 | 278,942 | D | |
| Ordinary Shares | 05/29/2018 | | M ⁽¹⁾ | | 3,145 | A | \$2.48 | 282,087 | D | |
| Ordinary Shares | 05/29/2018 | | S ⁽¹⁾ | | 3,145 | D | \$45 | 278,942 | D | |
| Ordinary Shares | 05/30/2018 | | M ⁽¹⁾ | | 20,250 | A | \$2.48 | 299,192 | D | |
| Ordinary Shares | 05/30/2018 | | S ⁽¹⁾ | | 20,250 | D | \$45 | 278,942 | 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 | | | | | | Amount or Number of Shares |
| Share Option (right to buy) | \$2.48 | 05/25/2018 | | M ⁽¹⁾ | | | 8,316 | (2) | 03/10/2025 | Ordinary Shares | 8,316 | \$0.00 | 396,173 | D | |
| Share Option (right to buy) | \$2.48 | 05/29/2018 | | M ⁽¹⁾ | | | 3,145 | (2) | 03/10/2025 | Ordinary Shares | 3,145 | \$0.00 | 393,028 | D | |
| Share Option (right to buy) | \$2.48 | 05/30/2018 | | M ⁽¹⁾ | | | 20,250 | (2) | 03/10/2025 | Ordinary Shares | 20,250 | \$0.00 | 372,778 | 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 March 14, 2018.
- The share option represented a right to purchase a total of 422,778 ordinary shares that vest in thirty-six monthly installments beginning on December 12, 2014.

Remarks:

/s/ Paul B. Bolno 05/30/2018
 ** 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.

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.