FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| OMB APPROVAL |           |  |  |  |  |  |  |  |
|--------------|-----------|--|--|--|--|--|--|--|
| OMB Number:  | 3235-0287 |  |  |  |  |  |  |  |

0.5

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

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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*  Verdine Gregory L.  (Last) (First) (Middle)  C/O WAVE LIFE SCIENCES LTD.,  733 CONCORD AVE  (Street)  CAMBRIDGE MA 02138 |  |              |  |      |      |                              | 2. Issuer Name and Ticker or Trading Symbol     Wave Life Sciences Ltd. [ WVE ]  3. Date of Earliest Transaction (Month/Day/Year)     11/20/2019  4. If Amendment, Date of Original Filed (Month/Day/Year) |  |                               |  |                                |       |  |          |                           |   | heck<br>X                             | cionship<br>all appl<br>Direct<br>Office<br>below<br>dual or<br>Form  | wner<br>specify<br>plicable     |   |  |            |
|--|--|--------------|--|------|------|------------------------------|--|--|-------------------------------|--|--------------------------------|-------|--|----------|---------------------------|---|---------------------------------------|---|---------------------------------|---|--|------------|
| (City)   | (  | State        | e) (Z  | Zip) |      |                              |  |  |                               |  |                                |       |  |          |                           |   |                                       | Perso   |                                 | o man   | сло поро   | ·y         |
| Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned   |  |              |  |      |      |                              |  |  |                               |  |                                |       |  |          |                           |   |                                       |   |                                 |   |  |            |
| 1. Title of Security (Instr. 3)  2. Transact Date (Month/Day   |  |              |  |      |      | Execution Date,              |  |  | 3.<br>Transa<br>Code (I<br>8) | es Acquired (A) o<br>Of (D) (Instr. 3, 4 a |                                |       | and 5) Secu<br>Bene<br>Own   |          | cially<br>Following       | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I) (Instr. 4) |                                       | 7. Nature of Indirect Beneficial Ownership  |                                 |   |  |            |
|  |  |              |  |      |      |                              |  |  |                               |  | Code                           | v     | Amount   | (A<br>(D | ) or<br>)                 | Price   |                                       | Transa  | ransaction(s)<br>nstr. 3 and 4) |   |  | (Instr. 4) |
| Ordinary Shares 11/20/2  |  |              |  |      |      |                              |  | .019   |                               |  | S                              |       | 24,030   |          | D                         | \$30.2  | 7(1)                                  | 3   | 36,009                          |   | D  |            |
| Ordinary Shares 11/20/2  |  |              |  |      |      |                              | .019   |  |                               |  | S                              |       | 3,400  |          | D                         | \$31.59(2)  |                                       | 32,609  |                                 |   | D  |            |
| Ordinary Shares 11/20/2  |  |              |  |      | 2019 |                              |  |  |                               | S  |                                | 2,609 | 2,609 D  |          | \$32.7                    | <b>4</b> <sup>(3)</sup>   | 30,000                                |   | D                               |   |  |            |
|  | Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) |              |  |      |      |                              |  |  |                               |  |                                |       |  |          |                           |   |                                       |   |                                 |   |  |            |
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3)  | 2.<br>Conversion<br>or Exercis<br>Price of<br>Derivative<br>Security   | on I<br>se ( | Date Execution Date, (Month/Day/Year) if any |      |      | 4.<br>Transa<br>Code (<br>8) |  | Str. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) |                               | 1  | 6. Date<br>Expirati<br>(Month/ |       | 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amount of Share Of Share Sh |          | nstr. 3<br>mount<br>umber | Der<br>Sec  | rice of<br>ivative<br>urity<br>tr. 5) | 9. Number of<br>derivative<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction<br>(Instr. 4) | D<br>O<br>(I                    | 0.<br>Ownership<br>orm:<br>Direct (D)<br>or Indirect<br>() (Instr. 4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |            |

## **Explanation of Responses:**

- 1. The price reflected is the weighted-average sale price for shares sold. The shares were sold in multiple transactions and the range of sale prices for the transactions reported was \$30.07 to \$31.045 per share. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.
- 2. The price reflected is the weighted-average sale price for shares sold. The shares were sold in multiple transactions and the range of sale prices for the transactions reported was \$31.50 to \$32.04 per share. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.
- 3. The price reflected is the weighted-average sale price for shares sold. The shares were sold in multiple transactions and the range of sale prices for the transactions reported was \$32.69 to \$32.76 per share. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.

## Remarks:

/s/ Gregory L. Verdine

11/22/2019

\*\* 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 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.