(Last)

(Street)

(First)

C/O RA CAPITAL MANAGEMENT, LLC

20 PARK PLAZA, SUITE 1200

(Middle)

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL						
OMB Number:	3235-0287					
Estimated average burden						
hours per response:	0.5					

Footnote(2)(3)

Footnote⁽²⁾⁽³⁾

11. Nature of Indirect Beneficial Ownership (Instr. 4)

Footnote⁽²⁾⁽³⁾

Footnote⁽²⁾⁽³⁾

Check this box if no longer subject to

	n 16. Form 4 or ontinue. See In	Form 5 obligations struction 1(b).			Filed	oursuant to Soursuant to Sour Section 3				ties Exchange		34			hou	rs per resp	onse:	C
		Reporting Person*				Issuer Name Vave Life	and Ticker	or Trad	ing Syr	mbol	-			ationship of R k all applicable Director Officer (gi	e)	X	10%	owner
					3. Date of Earliest Transaction (Month/Day/Year) 08/14/2015								below)	ve uue		belov		
(Street) BOSTON MA 02116			4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person X Form filed by More than One Reporting Person							
(City)		(State)	(Zip)															
			Table I - N	on-D	erivat	ive Secur	ities Acc	quire	d, Dis	posed of	, or Ben	eficia	lly Ov	vned				
1. Title of	Security (Ins	tr. 3)		Date	nsactio n/Day/Y	Executive (ear)	emed ion Date, /Day/Year)	3. Transa Code (8)		4. Securities Disposed Of			5)	5. Amount of Securities Beneficially O Following Rep Transaction(s'	orted	6. Owner Form: Di or Indire (Instr. 4)	irect (D) ect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
								Code	v	Amount	(A) or (D)	Price	- 1.	(Instr. 3 and 4)				
Ordinary	Shares			11/	16/201	15		С		1,172,06	0 A	(1)	5,213,65	51	1	:	See Footnote ⁽²⁾
Ordinary	Shares			11/	16/201	15		P		1,875,00	O A \$1		16	7,088,651(4)		*) 		See Footnote ⁽²⁾
			Table II			/e Securit ts, calls, v							y Owr	ned				
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. Trans Code 8)	action (Instr.	5. Number of Derivative S Acquired (A Disposed of 3, 4 and 5)	ecurities) or	Expir	te Exerc ation D th/Day/		Securities	7. Title and Amount Securities Underlyir Derivative Security 3 and 4)		lying Derivative		Securities For Beneficially Owned or I		ership Indirect Benefic Owners (Instr. 4)
				Code	v	(A)	(D)	Date Exerc	cisable	Expiration Date	Title	Amour Numbe Shares	er of	tor Re rof Tra		Reported Transaction(s)		
Series B Preferred Shares	(1)	08/14/2015		P		1,172,060 ⁽⁵⁾			(1)	(1)	Ordinary Shares	1,172	2,060 ⁽⁵⁾ \$12.37 ⁽⁵⁾		1,172,060 ⁽⁵⁾		I	See Footnote
Series B Preferred Shares	(1)	11/16/2015		С			1,172,060		(1)	(1)	Ordinary Shares	1,17	2,060	(1)		0	I	See Footnote
		Reporting Person* IANAGEME												•				•
1		(First) MANAGEMEN SUITE 1200	(Middle))														
(Street)	N	MA	02116															
(City)		(State)	(Zip)															
	nd Address of nsky Pete	Reporting Person*	•															
l .		(First) MANAGEMEN SUITE 1200	(Middle))														
(Street)	N	MA	02116															
(City)		(State)	(Zip)															
		Reporting Person*																

BOSTON	MA	02116
(City)	(State)	(Zip)

Explanation of Responses:

- 1. The Series B Preferred shares were convertible into Wave Life Sciences Ltd. Ordinary shares on a one-for-one basis at any time, at the election of the holder. The Series B Preferred shares had no expiration date but converted automatically into Ordinary shares upon consummation of the issuer's initial public offering on November 16, 2015.
- 2. RA Capital Management, LLC (the "Adviser") is the general partner of RA Capital Healthcare Fund, L.P. (the "Fund") and the investment adviser of Blackwell Partners, LLC (the "Blackwell Account"). Peter Kolchinsky is a director of the issuer and is the sole manager of the Adviser. In their respective capacities, each of Mr. Kolchinsky and the Adviser may be deemed to beneficially own the reported securities for purposes of Section 13(d) of the Securities Exchange Act of 1934.
- 3. The Adviser and Mr. Kolchinsky disclaim beneficial ownership of the reported securities for purposes of Rule 16a-1(a)(1) under the Exchange Act in reliance on Rule 16a-1(a)(1)(v) and (vii), respectively. The filing of this Form 4 shall not be construed as an admission that either the Adviser or Mr. Kolchinsky is or was, for purposes of Rule 16a-1(a)(1) under the Exchange Act, the beneficial owner of any of the securities reported herein. Mr. Kolchinsky and the Adviser disclaim beneficial ownership of the securities reported herein for purposes of Rule 16a-1(a)(2) under the Exchange Act except to the extent of their pecuniary interest therein.
- 4. These securities include 6,582,428 shares held by the Fund and 506,223 shares held in an account owned by the Blackwell Account.
- 5. The terms of the Series B Preferred shares as reported herein have been adjusted to reflect a 4.0415917-for-1 forward split of both the Series B Preferred shares and the Ordinary shares on November 1, 2015.

/s/ Peter Kolchinsky, Manager of RA Capital Management, LLC
/s/ Peter Kolchinsky, individually
/s/ Peter Kolchinsky, Manager of RA Capital Management, LLC,
the Capital Management, LLC,
11/18/2015

the General Partner of RA Capital
Healthcare Fund, L.P.

** 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.