FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPRO	VAL
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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

				riieu į							Company Act			•						
1. Name and Address of Reporting Person* RA CAPITAL MANAGEMENT, LLC					2. Issuer Name and Ticker or Trading Symbol Wave Life Sciences Ltd. [WVE]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director X 10% Owner							
(Last)	(Fir	,	Middle)		3. Da 01/2			t Tra	ansaction	і (Моі	nth/Day/Year)	1				er (give t	title	0	ther (spelow)	
20 PARK	K PLAZA, S	UITE 1200			4. If A	١me	endment,	Dat	te of Orig	inal F	Filed (Month/D	ay/Yea	r)	6. I Lin	ndividual o	or Joint/C	Group F	iling (Ch	eck Ap	plicable
(Street)	N M.	A 0	2116												Form	n filed by n filed by on				
(City)	(St	ate) (2	Zip)																	
		Tabl	e I - No	n-Deriv	ative \$	Se	curitie	s A	cquire	d, D	isposed o	f, or E	Benefi	cia	lly Own	ed				
1. Title of	Security (Ins	tr. 3)	Date	ansaction th/Day/Ye	Ex ear) if a	ecı any	eemed ution Date / th/Day/Ye		3. Transac Code (Ir 8)				Acquired (A) or (D) (Instr. 3, 4 Securities Beneficially Owned Following (Instr. 4) Securities Beneficially (D) or Beneficial (Instr. 4)		ect ficial rship					
									Code	v	Amount	(A) or (D)	Price		Reported Transaction (Instr. 3 and	on(s)	(IIIau.	- ,	(III Sti	. 4)
Ordinary	Shares		01.	/24/201	9				P		263,158	A	\$3	8	7,775,2	207(1)		I	See Foot	note ⁽²⁾⁽³⁾
		Та									posed of, convertib				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution if any	3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)				ation	ercisable and Date y/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. Owners Form: Direct (or Indi (I) (Inst 4)	ship o B (D) C rect (I	1. Nature of Indirect Beneficial Ownership Instr. 4)
					Code		V (A)	(D)	Date Exerc	isabl	Expiration e Date	Title	Amou or Numb of Share	er						
		f Reporting Person		<u>C</u>								,				,				
(Last) 20 PARK		(First) UITE 1200	(Midd	lle)																
(Street)	N	MA	021	16																
(City)		(State)	(Zip)																	

1. Name and Add	dress of Reporting Pe	rson*						
(Last)	(First)	(Middle)						
C/O RA CAPITAL MANAGEMENT, LLC								
20 PARK PLAZA, SUITE 1200								
(Street)								
BOSTON	MA	02116						
-								
(City)	(State)	(Zip)						

Explanation of Responses:

- 1. Following the reported transactions, RA Capital Healthcare Fund, L.P. (the "Fund") held 6,805,182 shares and 970,025 shares held by a separately managed account (the "Account").
- 2. RA Capital Management, LLC (the "Adviser") is the general partner of the Fund and the investment adviser of the Account. Peter Kolchinsky is a director of the issuer and is the sole manager of the Adviser. In their respective capacities, each of Dr. 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 Dr. 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 Dr. 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. Dr. 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

/s/ Peter Kolchinsky, Manager 01/28/2019 of RA Capital Management,

/s/ Peter Kolchinsky, <u>individually</u>

01/28/2019

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

^{*} 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).