# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

## SCHEDULE 13G Under the Securities Exchange Act of 1934 (Amendment No. \_)\*

Wave Life Sciences Ltd. (Name of Issuer)

Common Stock, \$0.001 par value per share (Title of Class of Securities)

<u>Y95308105</u> (CUSIP Number)

<u>December 31, 2017</u> (Date of Event Which Requires Filing of this Statement)

ļ	⊠ Rule 13d-1(b)				
[	☐ Rule 13d-1(c)				
[	☐ Rule 13d-1(d)				
			be filled out for a reporting person's initial filing on this form with respect t information which would alter the disclosures provided in a prior cover page.	o the subject class of securities, and fo	
			er of this cover page shall not be deemed to be "filed" for the purpose of Secti liabilities of that section of the Act but shall be subject to all other provisions		
(1)	Names of Reporting	Persons.		Redmile Group, LLC	
(2)	Check the Appropria	Check the Appropriate Box if a Member of a Group (See Instructions)  (a) [ (b) [			
(3)	SEC Use Only				
(4)	Citizenship or Place	Citizenship or Place of Organization DELAWAR			
	NUMBER OF	(5)	Sole Voting Power	0	
	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	(6)	Shared Voting Power	2,209,107	
		(7)	Sole Dispositive Power	0	
		(8)	Shared Dispositive Power	2,209,107	
(9)	Aggregate Amoun	t Benefic	ially Owned by Each Reporting Person	2,209,107	
(10)	Check if the Aggre	gate Am	ount in Row (9) Excludes Certain Shares (See Instructions)		
(11)	Percent of Class R	epresente	d by Amount in Row (9)	7.95%	
(12)	Type of Reporting	Person (S	See Instructions)	IA,OO	
			2		
(1)	Names of Reporting			JEREMY C. GREEN (a)	
(2)	Check the Appropria	ite Box if	a Member of a Group (See Instructions)	(b) 🗆	
(3)	SEC Use Only				

(4)	Citizen	ship	or Place of Organization UNITED	KINGDOM			
ľ	NUMBE		F (5) Sole Voting Power	0			
	SHARES ENEFICIALLY		• • • • • • • • • • • • • • • • • • • •	2,209,107			
I	NED B	TINC	G (7) Sole Dispositive Power	0			
PI	ERSON	WII	TH (8) Shared Dispositive Power	2,209,107			
(9)	Aggre	egate	e Amount Beneficially Owned by Each Reporting Person	2,209,107			
(10)	Chec	k if th	he Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)				
(11)	Perce	nt of	Class Represented by Amount in Row (9)	7.95%			
(12)	Type	of Re	eporting Person (See Instructions)	IN,HC			
			3				
Item 1(a).	Name	of Is	ssuer:				
	Wave	Life :	Sciences Ltd.				
Item 1(b).	. Address of Issuer's Principal Executive Offices:						
	8 Cross Street, #10-00 Singapore U0 048424						
Item 2(a).	. Names of Persons Filing:						
	Redmile Group, LLC ("Redmile") Jeremy C. Green ("Jeremy Green")						
Item 2(b).	). Address of Principal Business Office or, if None, Residence:						
	The principal business address of each reporting person is One Letterman Drive, Bldg D, Ste D3-300, San Francisco, CA 94129.						
Item 2(c).	Citizenship:						
	Reference is made to Item 4 of pages 2–3 of this Schedule 13G (this "Schedule"), which Items are incorporated by reference herein.						
Item 2(d).	. Title of Class of Securities:						
	Comm	non S	Stock, \$.001 par value per share				
Item 2(e).	. CUSIP Number:						
	Y95308105						
Item 3.	_		ement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:				
			Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).				
			Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).				
		(c) ]	Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).				
		(d)	Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).				
	⊠ (	(e) .	An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);				
		(f) A	An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);				
		(g)	A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);				

		(h)	A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);				
		(i)	A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);				
		(j)	Group, in accordance with §240.13d-1(b)(1)(ii)(J).				
Item 4.	p.						
	Reference is hereby made to Items 5-9 and 11 of this Schedule above, which Items are incorporated by reference herein.						
Item 5.	Ownership of Five Percent or Less of a Class						
five percen	If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more the ive percent of the class of securities, check the following [].						
Item 6. Ownership of More than Five Percent on Behalf of Another Person.							
	N/A						
Item 7.	Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company						
	statin	f a parent holding company or control person has filed this schedule, pursuant to Rule 13d-1(b)(1)(ii)(G), so indicate under Item 3(g) and attach ating the identity and the Item 3 classification of the relevant subsidiary. If a parent holding company or control person has filed this schedule Rule 13d-1(c) or Rule 13d-1(d), attach an exhibit stating the identification of the relevant subsidiary.					
	See I	Exhib	it B attached hereto.				

#### Item 8. **Identification and Classification of Members of the Group**

Not Applicable.

#### Item 9. **Notice of Dissolution of Group**

Not Applicable.

#### Item 10. Certification

By signing below the undersigned certify that, to the best of their knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

## Signature

After reasonable inquiry and to the best of my knowledge and belief, the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: Feburary 14, 2018 REDMILE GROUP, LLC

> /s/ Jeremy C. Green Name: Jeremy C. Green

Title: Managing Member

JEREMY C. GREEN

By: /s/ Jeremy C. Green Jeremy C. Green

### Exhibit A

The undersigned agree that this Schedule 13G, dated February 14, 2018, relating to the common stock, par value \$0.001, of Wave Life Sciences Ltd., shall be filed on behalf of the undersigned.

Dated: Feburary 14, 2018 REDMILE GROUP, LLC

> /s/ Jeremy C. Green Name: Jeremy C. Green Title: Managing Member

## JEREMY C. GREEN

By: <u>/s/ Jeremy C. Green</u> Jeremy C. Green

## Exhibit B

Redmile Group, LLC is the relevant entity for which Jeremy C. Green may be considered a control person.