United States SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

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Under the Securities Exchange Act of 1934

WAVE LIFE SCIENCES LTD.

(Name of Issuer)

Common Stock (Title of Class of Securities)

> Y95308105 (CUSIP Number)

December 17, 2019 (Date of Event Which Requires Filing This Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

☐ Rule 13d-1(b)

☐ Rule 13d-1(c)

☐ Rule 13d-1(d)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. Y95308105

1.	Names of Reporting Persons		
	BB Biotech AG		
2.	Check th (a) ⊠		propriate Box if a Member of a Group (See Instructions)
	(a) ⊠ (b) □		
3.	SEC Use Only		
4.	4. Citizenship or Place of Organization		
	Switzerland		
Number of Shares Beneficially Owned by Each Reporting Person with:		5.	Sole Voting Power
			0
		6.	Shared Voting Power
			1,902,858
		7.	Sole Dispositive Power
			0
		8.	Shared Dispositive Power
			1,902,858
9.	. Aggregate Amount Beneficially Owned by Each Reporting Person		
	1,902,858		
10.	. Check if the Aggregate Amount in Row (9) Excludes Certain Shares		
11.	. Percent of Class Represented by amount in Row (9)		
	5.5%		
12.	Type of Reporting Person (See Instructions)		
	HC,CO		

CUSIP No. Y95308105

1.	1. Names of Reporting Persons Biotech Target N.V.			
	I.R.S. Identification Nos. of above persons (entities only): N/A			
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) ⊠ (b) □			
	(a) 🖾	(0)		
3.	SEC Use Only			
4.	Citizenship or Place of Organization			
Curacao 5. Sole Voting Power		Sole Voting Power		
Number of			0	
Shares		6.	Shared Voting Power	
Beneficially Owned by Each Reporting Person with:			1,902,858	
		7.	Sole Dispositive Power	
			0	
		8.	Shared Dispositive Power	
1,902,858		1,902,858		
9.	. Aggregate Amount Beneficially Owned by Each Reporting Person			
	1,902,858			
10.				
11.	. Percent of Class Represented by amount in Row (9)			
	5.5%			
12.	. Type of Reporting Person (See Instructions)			
	CO			

Item 1
1(a) Name of Issuer: Wave Life Sciences Ltd.
1(b) Address of Issuer's Principal Executive Offices:
7 Straits View #12-00, Marina One East Tower, Singapore 018936
Item 2
2(a) Name of Person Filing: <u>BB Biotech AG ("BB Biotech") on behalf of its wholly-owned subsidiary, Biotech Target N.V. ("Biotech Target")</u>
2(b) Address of Principal Business Office or, if none, Residence:
BB Biotech AG: Schwertstrasse 6, CH-8200 Schaffhausen, Switzerland
Biotech Target N.V.: Ara Hill Top Building, Unit A-5, Pletterijweg Oost 1, Curaçao
2(c) Citizenship: BB Biotech AG: Switzerland
Biotech Target N.V.: Curacao
2(d) Title of Class of Securities Common Stock, None par value
2(e) CUSIP Number Y95308105
Item 3
If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:
a. \square Broker or Dealer registered under Section 15 of the Act.
b. \square Bank as defined in Section 3(a)(6) of the Act.
c. \square Insurance company as defined in Section 3(a)(19) of the Act.
d. \square Investment company registered under section 8 of the Investment Company Act of 1940.
e. \square An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
f. \square An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
g. \square A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
h. \square A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
i. \Box 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;
j. 🗆 Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
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Item	4. Ow	nership
	Provi	ide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item
1.		
	(a)	Amount beneficially owned: 1,902,858
	(b)	Percent of class: 5.5%
	(c)	Number of shares as to which the person has:
	(i)	Sole power to vote or to direct the vote 0
	(ii)	Shared power to vote or to direct the vote 1,902,858
	(iii)	Sole power to dispose or to direct the disposition of 0
	(iv)	Shared power to dispose or to direct the disposition of 1,902,858
Item	5. Ow	onership of Five Percent or Less of a Class
mor		s 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 five percent of the class of securities, check the following: \Box
Item	6. Ow	vnership of More than Five Percent on Behalf of Another Person.
	N/A	
	7. Ide trol Pe	ntification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or rson.
	This	statement is filed jointly by BB Biotech and Biotech Target, Biotech Target is a wholly-owned subsidiary of BB Biotech.
Item	8. Ide	ntification and Classification of Members of the Group
	N/A	
Item	9. Not	tice of Dissolution of Group
	N/A	
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Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above 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.

SIGNATURES

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

BB Biotech AG

Date: December 19, 2019	Ву:	/s/ Martin Gubler	
		Signatory Authority	
	Name:	Martin Gubler	
	Title:	Signatory Authority	
Date: December 19, 2019	Ву:	/s/ Ivo Betschart	
		Signatory Authority	
	Name:	Ivo Betschart	
	Title:	Signatory Authority	
Biotech Target N.V.			
Date: December 19, 2019	By:	/s/ Jan Bootsma	
		Signatory Authority	
	Name:	Jan Bootsma	
	Title:	Signatory Authority	
Date: December 19, 2019	By:	/s/ Hugo van Neutegem	
		Cignotowy Authority	
		Signatory Authority	
	Name:	Hugo van Neutegem	
	Name: Title:		

Exhibit A

Joint Filing Statement

BB Biotech AG

We, the undersigned, hereby express our agreement that the attached Schedule 13G (including all amendments thereto) is filed on behalf of each of the undersigned.

Date: December 19, 2019 By: /s/ Martin Gubler Signatory Authority Name: **Martin Gubler** Title: **Signatory Authority** Date: December 19, 2019 By: /s/ Ivo Betschart Signatory Authority Name: **Ivo Betschart Signatory Authority** Title: Biotech Target N.V. Date: December 19, 2019 By: /s/ Jan Bootsma Signatory Authority Name: Jan Bootsma Title: **Signatory Authority** Date: December 19, 2019 By: /s/ Hugo van Neutegem Signatory Authority Name: Hugo van Neutegem Title: **Signatory Authority** 7 of 7