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**United States**  
**SECURITIES AND EXCHANGE COMMISSION**  
WASHINGTON, D.C. 20549

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**SCHEDULE 13G**

Under the Securities Exchange Act of 1934  
(Amendment No. 4)\*

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**Generation Bio Co.**

(Name of Issuer)

**Common Stock**  
(Title of Class of Securities)

**37148K100**  
(CUSIP Number)

**December 5, 2024**  
(Date of Event Which Requires Filing This Statement)

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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).

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1.	Names of Reporting Persons	
	BB Biotech AG	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3.	SEC Use Only	
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
		3,310,869
	7.	Sole Dispositive Power
		0
	8.	Shared Dispositive Power
		3,310,869
9.	Aggregate Amount Beneficially Owned by Each Reporting Person	
	3,310,869	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares	
	<input type="checkbox"/>	
11.	Percent of Class Represented by amount in Row (9)	
	5.0%	
12.	Type of Reporting Person (See Instructions)	
	HC, CO	

1.	Names of Reporting Persons	
	Biotech Growth N.V.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3.	SEC Use Only	
4.	Citizenship or Place of Organization	
	Curaçao	
Number of Shares Beneficially Owned by Each Reporting Person with:	5.	Sole Voting Power
		0
	6.	Shared Voting Power
		3,310,869
	7.	Sole Dispositive Power
		0
	8.	Shared Dispositive Power
		3,310,869
9.	Aggregate Amount Beneficially Owned by Each Reporting Person	
	3,310,869	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares	
	<input type="checkbox"/>	
11.	Percent of Class Represented by amount in Row (9)	
	5.0%	
12.	Type of Reporting Person (See Instructions)	
	CO	

**Item 1**

**1(a) Name of Issuer:** Generation Bio Co.

**1(b) Address of Issuer's Principal Executive Offices:**

301 Binney Street, Cambridge, MA 02142, United States

**Item 2**

**2(a) Name of Person Filing:** BB Biotech AG ("BB Biotech") on behalf of its wholly-owned subsidiary, Biotech Growth N.V. ("Biotech Growth")

**2(b) Address of Principal Business Office or, if none, Residence:**

**BB Biotech:** Schwertstrasse 6, CH-8200 Schaffhausen, Switzerland

**Biotech Growth:** Ara Hill Top Building, Unit A-5, Pletterijweg Oost 1, Curaçao

**2(c) Citizenship:** BB Biotech AG: Switzerland

Biotech Growth N.V.: Curaçao

**2(d) Title of Class of Securities:** Common Stock, \$0.0001 par value

**2(e) CUSIP Number:** 37148K100

**Item 4. Ownership**

**Provide 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:** 3,310,869

**(b) Percent of class:** 5.0%

**(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** 3,310,869

**(iii) Sole power to dispose or to direct the disposition of** 0

**(iv) Shared power to dispose or to direct the disposition of** 3,310,869

**Item 5. Ownership of Five Percent or Less of a Class**

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 than five percent of the class of securities, check the following:

**Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.**

**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 9, 2024**

By: /s/ Martin Gubler  
Signatory Authority  
Name: **Martin Gubler**  
Title: **Signatory Authority**

Date: **December 9, 2024**

By: /s/ Ivo Betschart  
Signatory Authority  
Name: **Ivo Betschart**  
Title: **Signatory Authority**

**Biotech Growth N.V.**

Date: **December 9, 2024**

By: /s/ Jan Bootsma  
Signatory Authority  
Name: **Jan Bootsma**  
Title: **Signatory Authority**

Date: **December 9, 2024**

By: /s/ Hugo van Neutegem  
Signatory Authority  
Name: **Hugo van Neutegem**  
Title: **Signatory Authority**

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**Exhibit Index**

Exhibit A: Agreement by and between BB Biotech AG and Biotech Growth N.V. with respect to the filing of this disclosure statement.\*

\* Previously filed as an exhibit to BB Biotech AG and Biotech Growth N.V.'s Schedule 13G filed with the Securities and Exchange Commission on January 8, 2021.