UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

SCHEDULE 13G

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

GENERATION BIO CO.

(Name of Issuer)

COMMON STOCK, \$0.0001 PAR VALUE

(Title of Class of Securities)

37148K100

(CUSIP Number)

DECEMBER 31, 2020

(Date of Event Which Requires Filing of 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)
X	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. 37148K100

				ų	0
1.	Name of Reportin	ng Persor	S		
	Atlas Ventu	ire Fund	X, L.P.		
2.	Check the Approp	oriate Bo	x if a Member of a Group (See Instructions)		
	(a) 🗆				
	(b) 🗵				
3.	SEC USE ONLY				
4.	Citizenship or Pla	ice of Or	ganization		
	Delaware				
		5.	Sole Voting Power		
	Number of		0		
	Shares	6.	Shared Voting Power		
	Beneficially		10,111,939 ¹		
	Owned by	7.	Sole Dispositive Power		
	Each		0		
	Reporting Person With:	8.	Shared Dispositive Power		
	Person with:		10,111,939 ¹		
9. Aggregate Amount Beneficially Owned by Each Reporting Person					
	10,111,939 ¹				
10.					
11.			ted by Amount in Row (9)		
	21.7% ²	-			
12.	Type of Reporting	g Person	(See Instructions)		
	PN	-			

(1) As described in Item 4 below, Atlas Venture Fund X, L.P., a Delaware limited partnership ("Atlas X"), Atlas Venture Associates X, L.P., a Delaware limited partnership ("AVA X LP") and Atlas Venture Associates X, LLC, a Delaware limited liability company ("AVA X LLC" and together with Atlas X and AVA X LP, the "Fund X Reporting Persons") beneficially own 10,111,939 shares of the Issuer's Common Stock. All of these shares are directly held by Atlas X. AVA X LP is the general partner of Atlas X and AVA X LLC is the general partner of AVA X LP. Each of AVA X LP and AVA X LLC has voting and dispositive power over the shares held by Atlas X. As such, each of the Fund X Reporting Persons share voting and dispositive power with respect to the shares held by Atlas X.

Name of Reporting Persons				
Atlas Venture Associates X, L.P.				
$\begin{array}{c} (a) \square \\ (b) \boxtimes \end{array}$				
10,111,939 ¹				

(1) As described in Item 4 below, Atlas Venture Fund X, L.P., a Delaware limited partnership ("Atlas X"), Atlas Venture Associates X, L.P., a Delaware limited partnership ("AVA X LP") and Atlas Venture Associates X, LLC, a Delaware limited liability company ("AVA X LLC" and together with Atlas X and AVA X LP, the "Fund X Reporting Persons") beneficially own 10,111,939 shares of the Issuer's Common Stock. All of these shares are directly held by Atlas X. AVA X LP is the general partner of Atlas X and AVA X LLC is the general partner of AVA X LLC has voting and dispositive power over the shares held by Atlas X. As such, each of the Fund X Reporting Persons share voting and dispositive power with respect to the shares held by Atlas X.

1.	Name of Reporting Persons				
	Atlas Venture Associates X, LLC				
2.	Check the Appropriate Box if a Member of a Group (See Instructions)				
	(a) 🗆				
	(b) \boxtimes				
3.	SEC USE ONLY	7			
4.	Citizenship or Place of Organization				
	Delaware				
		5.	Sole Voting Power		
	Number of		0		
	Shares	6.	Shared Voting Power		
	Beneficially		10,111,939 ¹		
	Owned by	7.	Sole Dispositive Power		
	Each		0		
	Reporting Person With:	8.	Shared Dispositive Power		
	reison with.		10,111,939 ¹		
9.	. Aggregate Amount Beneficially Owned by Each Reporting Person				
	$10,111,939^1$				
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) 🗆				
11.					
	21.7% ²				
12.	Type of Reportin	ng Person	(See Instructions)		
	00				

(1) As described in Item 4 below, Atlas Venture Fund X, L.P., a Delaware limited partnership ("Atlas X"), Atlas Venture Associates X, L.P., a Delaware limited partnership ("AVA X LP") and Atlas Venture Associates X, LLC, a Delaware limited liability company ("AVA X LLC" and together with Atlas X and AVA X LP, the "Fund X Reporting Persons") beneficially own 10,111,939 shares of the Issuer's Common Stock. All of these shares are directly held by Atlas X. AVA X LP is the general partner of Atlas X and AVA X LLC is the general partner of AVA X LLC has voting and dispositive power over the shares held by Atlas X. As such, each of the Fund X Reporting Persons share voting and dispositive power with respect to the shares held by Atlas X.

1.	Name of Report				
			tunity Fund I, L.P.		
2.	Check the Appro	opriate Bo	x if a Member of a Group (See Instructions)		
	(a) 🗆				
3.	SEC USE ONLY	ľ			
4.	Citizenship or Pl	lace of Org	ganization		
	Delaware				
		5.	Sole Voting Power		
	Number of		0		
	Shares	6.	Shared Voting Power		
	Beneficially		1,366,937 ¹		
	Owned by	7.	Sole Dispositive Power		
	Each		0		
	Reporting	8.	Shared Dispositive Power		
	Person With:		1,366,9371		
9. Aggregate Amount Beneficially Owned by Each Reporting Person		cially Owned by Each Reporting Person			
	1,366,937 ¹				
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) \Box				
11.					
	2.9% ²				
12.	Type of Reportir	ng Person ((See Instructions)		
	PN	-			

(1) As described in Item 4 below, Atlas Venture Opportunity Fund I, L.P., a Delaware limited partnership ("AVO I"), Atlas Venture Associates Opportunity I, L.P., a Delaware limited partnership ("AVAO LP") and Atlas Venture Associates Opportunity I, LLC, a Delaware limited liability company ("AVAO LLC" and together with AVO I and AVAO LP, the "Opportunity Fund Reporting Persons") beneficially own 1,366,937 shares of the Issuer's Common Stock. All of these shares are directly held by AVO I. AVAO LP is the general partner of AVO I and AVAO LLC is the general partner of AVAO LP. Each of AVAO LP and AVAO LLC has voting and dispositive power over the shares held by AVO I. As such, each of the Opportunity Fund Reporting Persons share voting and dispositive power with respect to the shares held by AVO I.

1.	Name of Report				
			iates Opportunity I, L.P.		
2.	Check the Appro	opriate Bo	x if a Member of a Group (See Instructions)		
	(a) 🗆				
	(b) \boxtimes				
3.	SEC USE ONLY	Y			
4.	Citizenship or P	lace of Org	ganization		
	Delaware				
		5.	Sole Voting Power		
	Number of		0		
	Shares	6.	Shared Voting Power		
	Beneficially		1,366,937 ¹		
	Owned by Each	7.	Sole Dispositive Power		
			0		
	Reporting Person With:	8.	Shared Dispositive Power		
	Person with.		1,366,9371		
9.					
	1,366,937 ¹				
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) \Box				
11.					
	2.9% ²				
12.	Type of Reportin	ng Person	(See Instructions)		
	PN	-			

(1) As described in Item 4 below, Atlas Venture Opportunity Fund I, L.P., a Delaware limited partnership ("AVO I"), Atlas Venture Associates Opportunity I, L.P., a Delaware limited partnership ("AVAO LP") and Atlas Venture Associates Opportunity I, LLC, a Delaware limited liability company ("AVAO LLC" and together with AVO I and AVAO LP, the "Opportunity Fund Reporting Persons") beneficially own 1,366,937 shares of the Issuer's Common Stock. All of these shares are directly held by AVO I. AVAO LP is the general partner of AVO I and AVAO LLC is the general partner of AVAO LP. Each of AVAO LP and AVAO LLC has voting and dispositive power over the shares held by AVO I. As such, each of the Opportunity Fund Reporting Persons share voting and dispositive power with respect to the shares held by AVO I.

CUSIP	No.	37148K100
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1.	Name of Report	ing Person	S		
	Atlas Ven	ture Assoc	iates Opportunity I, LLC		
2.	Check the Appro	opriate Bo	x if a Member of a Group (See Instructions)		
	(a) 🗆				
3.	SEC USE ONLY	l			
4.	Citizenship or P	lace of Org	ganization		
	Delaware				
		5.	Sole Voting Power		
	Number of		0		
	Shares	6.	Shared Voting Power		
	Beneficially		1,366,937 ¹		
	Owned by	7.	Sole Dispositive Power		
	Each		0		
	Reporting	8.	Shared Dispositive Power		
	Person With:		1,366,9371		
9. Aggregate Amount Beneficially Owned by Each Reporting Person					
	1,366,937 ¹				
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) \Box				
11.	Percent of Class	Represent	ted by Amount in Row (9)		
	2.9% ²				
12.	Type of Reportin	ıg Person	(See Instructions)		
	00	-			

(1) As described in Item 4 below, Atlas Venture Opportunity Fund I, L.P., a Delaware limited partnership ("AVO I"), Atlas Venture Associates Opportunity I, L.P., a Delaware limited partnership ("AVAO LP") and Atlas Venture Associates Opportunity I, LLC, a Delaware limited liability company ("AVAO LLC" and together with AVO I and AVAO LP, the "Opportunity Fund Reporting Persons") beneficially own 1,366,937 shares of the Issuer's Common Stock. All of these shares are directly held by AVO I. AVAO LP is the general partner of AVO I and AVAO LLC is the general partner of AVAO LP. Each of AVAO LP and AVAO LLC has voting and dispositive power over the shares held by AVO I. As such, each of the Opportunity Fund Reporting Persons share voting and dispositive power with respect to the shares held by AVO I.

Item 1(a) Name of Issuer

Generation Bio Co. (the "Issuer")

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

301 Binney Street Cambridge, MA, 02142

Item 2(a) Name of Person Filing

This Schedule 13G is filed by (i) Atlas Venture Fund X, L.P., a Delaware limited partnership ("Atlas X"), (ii) Atlas Venture Associates X, L.P., a Delaware limited partnership ("AVA X LP"), (iii) Atlas Venture Associates X, LLC, a Delaware limited liability company ("AVA X LLC" and together with Atlas X and AVA X LP, the "Fund X Reporting Persons"), (iv) Atlas Venture Opportunity Fund I, L.P., a Delaware limited partnership ("AVO I"), (v) Atlas Venture Associates Opportunity I, L.P., a Delaware limited partnership ("AVAO LP") and (vi) Atlas Venture Associates Opportunity I, LLC, a Delaware limited liability company ("AVAO LLC" and together with AVO I and AVAO LP, the "Opportunity Fund Reporting Persons" and together with the Fund X Reporting Persons, the "Reporting Persons").

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

300 Technology Square, 8th Floor Cambridge, Massachusetts 02139

<u>Item 2(c)</u> <u>Citizenship</u>

Each of Atlas X, AVA X LP, AVO I and AVAO LP is a Delaware limited partnership. Each of AVA X LLC and AVAO LLC is a Delaware limited liability company.

Item 2(d) Title of Class of Securities

Common Stock, \$0.0001 par value per share

Item 2(e) CUSIP Number

37148K100

Item 3

Not applicable.

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: Atlas X is the record owner of 10,111,939 shares of Common Stock. AVA X LP is the general partner of Atlas X and AVA X LLC is the general partner of AVA X LP. Each of Atlas X, AVA X LP and AVA X LLC has shared voting and dispositive power over the shares held by Atlas X. As such, each of Atlas X, AVA X LP and AVA X LLC may be deemed to beneficially own the shares held by Atlas X.

Amount beneficially owned: AVO I is the record owner of 1,366,937 shares of Common Stock. AVAO LP is the general partner of AVO I and AVAO LLC is the general partner of AVAO LP. Each of AVO I, AVAO LP and AVAO LLC has shared voting and dispositive power over the shares held by AVO I. As such, each of AVO I, AVAO LP and AVAO LLC may be deemed to beneficially own the shares held by AVO I.

(b) Percent of class: Fund X Reporting Persons and Opportunity Fund Reporting Persons may be deemed to beneficially own 21.7% and 2.9%, respectively, of the Issuer's outstanding Common Stock, which percentages are calculated based upon 46,516,475 outstanding shares of Common Stock of the Issuer as of November 30, 2020, as reported in the Issuer's prospectus and filed with the Securities and Exchange Commission on January 7, 2021.

Collectively, the Reporting Persons beneficially own an aggregate of 11,478,876 shares of Common Stock, which represents 24.7% of the Issuer's outstanding Common Stock. The Fund X Reporting Persons and the Opportunity Fund Reporting Persons are under common control and as a result, the Reporting Persons may be deemed to be members of a group. However, the Reporting Persons disclaim such group membership, and this Schedule 13G shall not be deemed an admission that the Reporting Persons are members of a group for purposes of Section 13 or for any other purposes.

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote: None of the Reporting Persons have the sole power to direct the vote of the Common Stock.

(ii) Shared power to vote or to direct the vote: Each Fund X Reporting Person shares power to vote or direct the vote of 10,111,939 shares of Common Stock and each Opportunity Fund Reporting Person shares power to vote or direct the vote of 1,366,937 shares of Common Stock.

(iii) Sole power to dispose or to direct the disposition of: None of the Reporting Persons have the sole power to dispose or to direct the disposition of the Common Stock.

(iv) Shared power to dispose or to direct the disposition of: Each Fund X Reporting Person shares power to dispose or to direct the disposition of 10,111,939 shares of Common Stock and each Opportunity Fund Reporting Person shares power to dispose or to direct the disposition of 1,366,937 shares of Common Stock.

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. \Box

Item 6 Ownership of More than Five Percent of Another Person

Not applicable.

Item 7 Identification and Classification of the Subsidiary which Acquired the Security Being Reported on by the Parent Holding Company.

Not applicable.

Item 8 Identification and Classification of Members of the Group

Not applicable.

Item 9 Notice of Dissolution of Group

Not applicable.

Item 10 Certification

Not applicable.

SIGNATURE

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

Dated: February 16, 2021

ATLAS VENTURE FUND X, L.P.
By: Atlas Venture Associates X, L.P., its general partner
By: Atlas Venture Associates X, LLC, its general partner
By: /s/ Ommer Chohan
Name: Ommer Chohan
Title: CFO
ATLAS VENTURE ASSOCIATES X, L.P.
By: Atlas Venture Associates X, LLC, its general partner
By: /s/ Ommer Chohan
Name: Ommer Chohan
Title: CFO
ATLAS VENTURE ASSOCIATES X, LLC
By: /s/ Ommer Chohan
Name: Ommer Chohan
Title: CFO
ATLAS VENTURE OPPORTUNITY FUND I, L.P.
By: Atlas Venture Associates Opportunity I, L.P., its general partner
By: Atlas Venture Associates X, LLC, its general partner
By: /s/ Ommer Chohan
Name: Ommer Chohan
Title: CFO
ATLAS VENTURE ASSOCIATES OPPORTUNITY I, L.P.
By: Atlas Venture Associates Opportunity I, LLC, its general partner
By: /s/ Ommer Chohan
Name: Ommer Chohan
Title: CFO
ATLAS VENTURE ASSOCIATES OPPORTUNITY I, LLC
By: /s/ Ommer Chohan
Name: Ommer Chohan
Title: CFO

EXHIBITS

A: Joint Filing Agreement

Exhibit A

JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, the undersigned agree to the joint filing on behalf of each of them of a statement on Schedule 13G (including amendments thereto) with respect to the Common Stock of Generation Bio Co. and further agree that this agreement be included as an exhibit to such filing. Each party to the agreement expressly authorizes each other party to file on its behalf any and all amendments to such statement. Each party to this agreement agrees that this joint filing agreement may be signed in counterparts.

IN WITNESS WHEREOF, the undersigned have executed this Joint Filing Agreement as of February 16, 2021.

ATLAS VENTURE FUND X, L.P. By: Atlas Venture Associates X, L.P., its general partner By: Atlas Venture Associates X, LLC, its general partner /s/ Ommer Chohan By: Name: Ommer Chohan Title: CFO ATLAS VENTURE ASSOCIATES X, L.P. By: Atlas Venture Associates X, LLC, its general partner Bv: /s/ Ommer Chohan Name: Ommer Chohan Title: CFO ATLAS VENTURE ASSOCIATES X, LLC Bv: /s/ Ommer Chohan Name: Ommer Chohan Title: CFO ATLAS VENTURE OPPORTUNITY FUND I. L.P. By: Atlas Venture Associates Opportunity I, L.P., its general partner By: Atlas Venture Associates X, LLC, its general partner /s/ Ommer Chohan By: Name: Ommer Chohan Title: CFO ATLAS VENTURE ASSOCIATES OPPORTUNITY I, L.P. By: Atlas Venture Associates Opportunity I, LLC, its general partner /s/ Ommer Chohan By: Name: Ommer Chohan Title: CFO ATLAS VENTURE ASSOCIATES OPPORTUNITY I, LLC /s/ Ommer Chohan By: Name: Ommer Chohan Title: CFO