

OMB APPROVAL	
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>Stanton Matthew</u> (Last) (First) (Middle) <u>C/O GENERATION BIO CO., 301 BINNEY ST</u> (Street) <u>CAMBRIDGE MA 02142</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Generation Bio Co. [G BIO]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>CHIEF SCIENTIFIC OFFICER</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>05/10/2021</u>	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	05/10/2021		M ⁽¹⁾		8,600	A	\$0.6	206,754	D	
Common Stock	05/10/2021		s ⁽¹⁾		6,200	D	\$30.37 ⁽²⁾	200,554	D	
Common Stock	05/10/2021		s ⁽¹⁾		2,100	D	\$31.03 ⁽³⁾	198,454	D	
Common Stock	05/10/2021		s ⁽¹⁾		300	D	\$32.19	198,154	D	
Common Stock	05/11/2021		M ⁽¹⁾		172	A	\$0.6	198,326	D	
Common Stock	05/11/2021		M ⁽¹⁾		228	A	\$4.59	198,554	D	
Common Stock	05/11/2021		s ⁽¹⁾		400	D	\$31.05 ⁽⁴⁾	198,154	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/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. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					
Stock Option (right to buy)	\$0.6	05/10/2021		M ⁽¹⁾		8,600	(5)	01/04/2028	Common Stock	8,600	\$0	16,594	D	
Stock Option (right to buy)	\$0.6	05/11/2021		M ⁽¹⁾		172	(5)	01/04/2028	Common Stock	172	\$0	16,422	D	
Stock Option (right to buy)	\$4.59	05/11/2021		M ⁽¹⁾		228	(6)	04/01/2028	Common Stock	228	\$0	108,077	D	

Explanation of Responses:

- These transactions were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 24, 2020.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$29.83 to \$30.82, inclusive. The reporting person undertakes to provide to the Issuer, any security holder of the Issuer, or the staff of the U.S. Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnotes (2) through (4) of this Form 4.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$30.86 to \$31.16, inclusive.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$31.00 to \$31.16, inclusive.
- The option to purchase 87,584 shares of common stock was granted on January 5, 2018. The shares underlying the option vest over four years, with 25% of the shares vested on January 4, 2019 and the remaining shares vesting in equal quarterly installments thereafter.
- The option to purchase 108,305 shares of common stock was granted on April 2, 2018. The shares underlying the option vest over four years, with 25% of the shares vested on April 2, 2019 and the remaining shares vesting in equal quarterly installments thereafter.

/s/ Jennifer Elliott, Attorney-in-Fact 05/12/2021

** Signature of Reporting Person Date

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

* 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).

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.

