FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| OMB APPROVAL | | | | | | | | | |
|--------------------------|-----|--|--|--|--|--|--|--|--|
| OMB Number: 3235-0 | | | | | | | | | |
| Estimated average burden | | | | | | | | | |
| hours per response: | 0.5 | | | | | | | | |

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* Kerr Douglas (Last) (First) (Middle) C/O GENERATION BIO CO., 301 BINNEY ST | | | | | Issuer Name and Ticker or Trading Symbol Generation Bio Co. [GBIO] 3. Date of Earliest Transaction (Month/Day/Year) 01/20/2023 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | 6 | X Indivi | all applic Directo Officer below) CHIE | able) r (give title | 10% Owne | | ner | |
|--|--|--|--|--|---|---|--|------|---|----------------------------|------------------|---|---------------------------------------|--|---|---|--|--|--|--|
| (Street) CAMBR (City) | | itate) | (Zip) | | | | | | | | | | | | X Form filed by One Reporting Person Form filed by More than One Reporting Person | | | | | |
| 1. Title of S | Security (Ins | | tive | 12 | ed | quired, Disposed of, or Bene 3. 4. Securities Acquired (| | | | ed (A) or | <u> </u> | 5. Amour | | 6. Ow | | '. Nature | | | | |
| Date (Month/Da | | | | ay/Year) Execution Date, if any (Month/Day/Yea | | | , Transaction Dis | | | osed Of (D) (Instr. 3, 4 a | | | | ally (D) following (I) (| | r Indirect E str. 4) | of Indirect Beneficial Dwnership | | | |
| | | | | | | | | Code | v | Amount | (A) or (D) | | , l | Reported Transaction(s) (Instr. 3 and 4) | | | | Instr. 4) | | |
| | 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 Da if any (Month/Day/Y | Co | 4. Transaction Code (Instr. 8) | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | 6. Date Exercisa Expiration Date (Month/Day/Yea | | | 7. Title and Amo of Securities Underlying Derivative Secur (Instr. 3 and 4) | | De Se | Price of rivative curity str. 5) | 9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4) | s Blly | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
| | | | | Co | ode \ | v | (A) | (D) | Date Exercisable | | xpiration ate | Title | Amour or Number of Shares | r | | | | | | |
| Stock Option (right to buy) | \$4.71 | 01/20/2023 | | , | A | | 53,550 | | (1) | 0 | 1/20/2033 | Common Stock | 53,55 | 0 | \$0 | 53,550 | 0 | D | | |
| Restricted Stock Units | (2) | 01/20/2023 | | | A | | 26,775 | | (3) | | (3) | Common Stock | 26,77 | 5 | \$0 | 26,77 | 5 | D | | |

Explanation of Responses:

- 1. This option was granted on January 20, 2023. The shares underlying the option vest over four years, with 25% of the shares vesting on January 20, 2024 and the remaining shares vesting in equal quarterly
- 2. Each restricted stock unit represents the right to receive one share of the company's common stock.
- 3. The shares underlying the restricted stock units vest over four years, with 25% of the shares vesting on January 15, 2024 and the remaining shares vesting in equal quarterly installments thereafter.

/s/ Jennifer Elliott, Attorney-in-01/24/2023 **Fact**

** Signature of Reporting Person

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.