FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

| Washington, | D.C. | 20549 |
|-------------|------|-------|

| STATEMENT | OF | CHANGES | IN | BENEFICIAL | OWNERSHIP |
|-----------|----|----------------|----|-------------------|-----------|
| | | | | | |

| OMB APPROVAL | | | | | | | |
|--------------------------|--|--|--|--|--|--|--|
| OMB Number: 3235-0287 | | | | | | | |
| Estimated average burden | | | | | | | |
| hours per responses: | | | | | | | |

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

| Name and Address of Reporting Person* Gregory Philip D | | | | | | 2. Issuer Name and Ticker or Trading Symbol 2seventy bio, Inc. [TSVT] | | | | | | | (Che | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner V Officer (give title Other (specify | | | | |
|---|--|----------------------------|--------------------------------|-----------------|-------------|--|--|--|---|---|---|--|-------------------------------------|---|--|-------------|---|--|
| (Last) 60 BINN | (F EY STREI | First) ET | (Middle) | | | 3. Date of Earliest Transaction (Month/Day/Year) 01/05/2024 | | | | | | | X | X Officer (give title Officer Officer Chief Scientific Officer | | | | |
| (Street) CAMBR | IDGE M | 1A | 02142 | | _ 4. _ | . If Amendment, Date of Original Filed (Month/Day/Year) | | | | | Line) | Individual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person | | | | | | |
| (City) | (5 | State) | (Zip) | | R | Rule | 10b5- | 1(c) | Tran | sac | tion Indi | ication | | | | | | |
| | Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10. | | | | | | | | | | | | | | | | | |
| | | Та | ble I - N | on-De | rivati | ve S | ecurities | s Ac | quire | d, Di | sposed o | f, or Be | neficially | Owned | | | | |
| Date | | 2. Trans Date (Month | | Execution Date, | | Transaction Disposed C | | es Acquired (A) or Of (D) (Instr. 3, 4 and 5) | | 5. Amount of Securities Beneficially Owned Following Reported | | 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 | Transacti (Instr. 3 a | ion(s) | | | (IIISti. 4) | | |
| Common Stock 01/05/2 | | | | 5/2024 | 024 | | S ⁽¹⁾ | | 795 | D | \$3.7536(2 | 230 | 0,842 | | D | | | |
| Common | Stock(3) | | | 01/0 | 8/2024 | 2024 | | A | | 79,438 | A | \$0.00 | \$0.00 | | | 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 (Instr. 3) Price of Derivative Security 3. Transaction Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) | | Date, | Date, Transaction Code (Instr. | | | | 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 | e s illy | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | | | |
| | Code | | | | | v | (A) | (D) | Date Exercis | able | Expiration Date | Title | Amount or Number of Shares | unt (Instr. | | | | |
| Stock Option (Right to buy) | \$3.97 | 01/08/2024 | | | A | | 158,875 | | (4) | | 01/08/2034 | Common Stock | 158,875 | \$0.00 | 158,87 | 75 | D | |

Explanation of Responses:

- 1. Shares were sold to cover tax withholding obligations incurred in connection with the vesting of restricted stock units ("RSUs").
- 2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$3.675 to \$3.83, inclusive. The Reporting Person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- $3. RSU \ awards \ vest \ over \ a \ four-year \ period \ at \ the \ rate \ of \ 25\% \ on \ 01/02/2025, \ 25\% \ on \ 01/02/2026, \ 25\% \ on \ 01/02/2027, \ and \ 25\% \ on \ 01/02/2028.$
- 4. This stock option vests over a four-year period at the rate of 25% on 01/02/2025, and then in 36 equal monthly installments thereafter.

Remarks:

/s/ Teresa Jurgensen, Attorney-01/09/2024 in-Fact

** 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.