FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

| ashington, | D.C. | 20549 |  |
|------------|------|-------|--|
|            |      |       |  |

OMB APPROVAL

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

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* <u>Vickers Philip J.</u>                          |  |            |                                     |                 | 2. Issuer Name and Ticker or Trading Symbol AVROBIO, Inc. [ AVRO ] |   |  |  |   |  |                                     |  | telationship<br>eck all appli<br>X Direct   | ′   |                | rson(s) to Issuer<br>10% Owner |                    |        |
|---|--|------------|-------------------------------------|-----------------|--|---|--|--|---|--|-------------------------------------|--|---|---|----------------|--------------------------------|--------------------|--------|
| (Last)  | (F   | irst)      | (Middle)                            |                 |  | 3. Date of Earliest Transaction (Month/Day/Year) 06/06/2023   |  |  |   |  |                                     |  |   | Officer<br>below)                                   | (give title    |                                | Other (s<br>below) | pecify |
| C/O AVROBIO, INC.<br>100 TECHNOLOGY SQUARE, 6TH FLOOR                                   |  |            |                                     | 4. If A         | 4. If Amendment, Date of Original Filed (Month/Day/Year)           |   |  |  |   |  |                                     | Line   | Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person |   |                |                                |                    |        |
| (Street) CAMBRIDGE MA 02139   |  |            |                                     |                 |  |   |  |  |   |  |                                     |  | Form filed by More than One Reporting<br>Person   |   |                |                                |                    |        |
| (City)  | (S   | tate)      | (Zip)                               |                 | $\int_{\square}$   | Rule 10b5-1(c) Transaction Indication  Check this box to indicate that a transaction was made pursuant to a contract, instruction or writte satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10. |  |  |   |  |                                     |  | on or written   | plan th   | nat is intende | d to                           |                    |        |
|   |  | Tab        | le I - Noi                          | า-Deriv         | ative/   | Sec   | curities   | Ac   | quired, D   | isp  | osed o                              | f, or Be   | neficial  | ly Owne   | d              |                                |                    |        |
| 1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)                           |  |            |                                     | Execution Date, |  | Transaction Disposed O Code (Instr. 5)  |  | rities Acquired (A) or<br>ad Of (D) (Instr. 3, 4 and |   | Benefic  | es For<br>ally (D)<br>Following (I) | Form:  | : Direct   C<br>Indirect   E<br>str. 4)   C   | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership |                |                                |                    |        |
|   |  |            |                                     |                 |  |   | Code   | v  | Amount (A) or (D)                                   |  | r Price                             | Transac<br>(Instr. 3   | tion(s)   |   | (Instr. 4)     |                                |                    |        |
|   | Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) |            |                                     |                 |  |   |  |  |   |  |                                     |  |   |   |                |                                |                    |        |
| Derivative Conversion Date Execution Date, Security or Exercise (Month/Day/Year) if any |  |            | ansaction of ode (Instr. Derivative |                 | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year)     |   | 7. Title and<br>Amount of<br>Securities<br>Underlying<br>Derivative Security<br>(Instr. 3 and 4) |  | 8. Price of<br>Derivative<br>Security<br>(Instr. 5) | 9. Number of<br>derivative<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 4) | у                                   | 10.<br>Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4)                                |   |                |                                |                    |        |
|   |  |            |                                     |                 | Code   | v   | (A)  | (D)  | Date<br>Exercisable                                 | Exp<br>Dat   | piration<br>te                      | Title  | Amount<br>or<br>Number<br>of<br>Shares  |   |                |                                |                    |        |
| Stock<br>Option<br>(Right to<br>Buy)  | \$1.09   | 06/06/2023 |                                     |                 | A  |   | 17,643   |  | (1)   | 06/  | 05/2033                             | Common<br>Stock  | 17,643  | \$0   | 17,643         |                                | D                  |        |

## **Explanation of Responses:**

1. The option shall vest in full upon the earlier of June 6, 2024 or the date of the Issuer's 2024 Annual Meeting of Stockholders, subject to the reporting person's continued service as a director through such vesting date.

> /s/ Steven Avruch, Attorney-in-Fact for Philip J. Vickers

\*\* Signature of Reporting Person

06/08/2023

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.