FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

| Washington,      | D.C. | 20549 |
|------------------|------|-------|
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| OMB APPROVAL             |     |  |  |  |  |  |  |  |
|--------------------------|-----|--|--|--|--|--|--|--|
| OMB Number: 3235-028     |     |  |  |  |  |  |  |  |
| 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

| Name and Address of Reporting Person*     Pinnow Cole  |  |            |          | 2. Issuer Name and Ticker or Trading Symbol Cogent Biosciences, Inc. [ COGT ] |  |   |                                      |   |                              | Relationship of Reporting Person(s) to Issuer (Check all applicable)     Director |  |                                     |  |  |   |   |  |
|--|--|------------|----------|---|--|---|--------------------------------------|---|------------------------------|---|--|-------------------------------------|--|--|---|---|--|
| (Last)   | ,  | irst)      | (Middle) |   | 3. Date of Earliest Transaction (Month/Day/Year) 05/25/2024  |   |                                      |   |                              | )   | X Officer (give title below) Other (specification)  Chief Commercial Officer               |                                     |  |  |   |   |  |
| C/O COGENT BIOSCIENCES, INC.   |  |            |          | -   |  |   |                                      |   |                              |   |  |                                     |  |  |   |   |  |
| 275 WYMAN STREET, 3RD FLOOR  |  |            |          |   | 4. If Amendment, Date of Original Filed (Month/Day/Year)   |   |                                      |   |                              |   | 6. Individual or Joint/Group Filing (Check Applicable Line)                                |                                     |  |  |   |   |  |
|  |  |            |          |   |  |   |                                      |   |                              | 2   | X Form filed by One Reporting Person   |                                     |  |  |   |   |  |
| (Street)<br>WALTH  | AM M   | IA         | 02451    |   |  |   |                                      |   |                              |   | Form filed by More than One Reporting Person   |                                     |  |  |   |   |  |
| (City)   | (S   | tate)      | (Zip)    |   | Rule 10b5-1(c) Transaction Indication  |   |                                      |   |                              |   |  |                                     |  |  |   |   |  |
|  |  |            |          |   | 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. |   |                                      |   |                              |   |  |                                     | satisfy  |  |   |   |  |
|  | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned |            |          |   |  |   |                                      |   |                              |   |  |                                     |  |  |   |   |  |
| Date   |  |            |          | 2. Transac<br>Date<br>(Month/Da   | Execution Date   |   | e, Transaction Disposed Code (Instr. |   | ties Acquir<br>d Of (D) (Ins | ed (A) or<br>str. 3, 4 and 5  | 5. Amoun<br>Securities<br>Beneficia<br>Owned Fo<br>Reported                                | Form (D) or ollowing (I) (In        |  | : Direct III<br>Indirect E<br>str. 4)                              | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |   |  |
|  |  |            |          | Code  |  |   | v                                    | Amount  | (A) or (D) Price             |   | Transacti  | ansaction(s)<br>estr. 3 and 4)      |  |  | 1150.4)   |   |  |
| Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) |  |            |          |   |  |   |                                      |   |                              |   |  |                                     |  |  |   |   |  |
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3)  | ative Conversion Date Execution Date, rity or Exercise (Month/Day/Year) if any   |            | Cod      | ransaction Derivative ode (Instr. Securities                                  |  | Expiration Date of S<br>(Month/Day/Year) Und<br>Der |                                      | 7. Title and Amount<br>of 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 |                                     | 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  | e V  | (A)   | (D)                                  | Date<br>Exercisable   |                              | piration<br>ate   | Title  | Amount<br>or<br>Number<br>of Shares |  | Transaction(s)<br>(Instr. 4)                                       |   |   |  |
| Stock<br>Option<br>(Right to<br>Buy)   | \$8.22   | 05/25/2024 |          | A   |  | 525,000   |                                      | (1)   | 05/                          | /25/2034  | Common<br>Stock  | 525,000                             | \$0  | 525,000  |   | D |  |

## **Explanation of Responses:**

1. This stock option shall vest 25% on the first anniversary of May 25, 2024, with the remainder vesting in equal monthly installments through May 25, 2028, subject to the Reporting Person's continued service to the Issuer.

in-Fact

/s/ Evan D. Kearns, Attorney-05/29/2024

Date

\*\* Signature of Reporting Person

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

- $^{\star}$  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.