|   | FORM  | 4  | UNITED   | ) STA                | TES  |  |  |                      |   |  | NGE                       | ECC  | MMIS                            | SION   |   |                                     |  |   |
|---|---|--|--|----------------------|--|--|--|----------------------|---|--|---------------------------|--|---------------------------------|--|---|-------------------------------------|--|---|
|   |   |  |  |                      | Washington, D.C. 20549   |  |  |                      |   |  |                           |  |                                 |  |   | OMB APPROV                          |  | /AL                                     |
| Section 16. Form 4 or Form 5<br>obligations may continue. See                       |   |  |  |                      | Description of the Securities Exchange Act of 1934<br>or Section 30(h) of the Investment Company Act of 1940 |  |  |                      |   |  |                           |  |                                 | HIP  | Estima  | Numbe<br>ated av<br>per res         | erage burden   | 0.5                                     |
| 1. Name and Address of Reporting Person <sup>*</sup><br>Celebi John                 |   |  |  |                      | 2. Issuer Name <b>and</b> Ticker or Trading Symbol<br>Sensei Biotherapeutics, Inc. [ SNSE ]                  |  |  |                      |   |  |                           |  |                                 | 05.000   | able)   | g Perso                             | on(s) to Issu<br>10% Ow<br>Other (s                                      | vner                                    |
| (Last)(First)(Middle)C/O SENSEI BIOTHERAPEUTICS, INC.1405 RESEARCH BLVD., SUITE 125 |   |  |  |                      | 3. Date of Earliest Transaction (Month/Day/Year)<br>02/15/2022   |  |  |                      |   |  |                           |  |                                 | below)   | below)<br>President and CEO   |                                     |  |   |
| (Street)<br>ROCKVILLE MD 20850  |   |  |  |                      | Line)<br>X Form filed<br>Form filed  |  |  |                      |   |  |                           |  |                                 | nt/Group Filing (Check Applicable<br>d by One Reporting Person<br>d by More than One Reporting |   |                                     |  |   |
| (City)  | (S  | tate)                                      | (Zip)  |                      | Person   |  |  |                      |   |  |                           |  |                                 |  |   |                                     |  |   |
|   |   | Та   | ble I - Non  | n-Deriva             | ative \$   | Securitie  | s Ac   | quired               | Dis   | posed c  | of, or                    | Bene   | ficially                        | Owned  |   |                                     |  |   |
| 1. Title of Security (Instr. 3)<br>2. Transa<br>Date<br>(Month/D                    |   |  |  |                      | Execution<br>if any  | 2A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year)    |  | Code (Instr.         |   | 4. Securities Acquired (A)<br>Disposed Of (D) (Instr. 3, 4 |                           |  | Beneficia<br>Owned Fo           | s<br>Ily<br>ollowing   | Form  | Direct I<br>Indirect E<br>str. 4) 0 | 7. Nature of<br>Indirect<br>Beneficial<br>Ownership                      |   |
|   |   |  |  |                      |  |  |  |                      | v   | Amount (A) o<br>(D)  |                           | (A) or<br>(D)  | Price                           | Reported<br>Transacti<br>(Instr. 3 a   | on(s)   |                                     |  | Instr. 4)                               |
| Common Stock 02/15/   |   |  |  |                      | /2022  |  | A  |                      | 53,900  | <b>)</b> <sup>(1)</sup>                                    | Α                         | \$0.00   | 54,1                            | 14 <sup>(2)</sup>  | D   |                                     |  |   |
|   |   |  | Table II - I<br>(                                    | Derivat<br>(e.g., pı | ive Se<br>uts, ca  | ecurities<br>alls, warı  | Acq<br>ants  | uired, l<br>s, optio | Disp<br>ns, c   | osed of,<br>converti                                       | , or B<br>ble s           | enefi<br>ecuri   | cially (<br>ties)               | Dwned  |   |                                     |  |   |
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3)                                 | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3. Transaction<br>Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Da<br>if any<br>(Month/Day/N | Co                   | nsaction<br>de (Instr  | n Derivativ<br>Securitie<br>Acquired<br>or Dispo<br>of (D) (In | 5. Number of<br>Derivative<br>Securities<br>Acquired (A)<br>or Disposed<br>of (D) (Instr.<br>3, 4 and 5) |                      | 6. Date Exercisa<br>Expiration Date<br>(Month/Day/Yea |  | of Sec<br>Under<br>Deriva | 7. Title and Amo<br>of Securities<br>Underlying<br>Derivative Secu<br>(Instr. 3 and 4) |                                 | 8. Price of<br>Derivative<br>Security<br>(Instr. 5)  | 9. Numbe<br>derivative<br>Securitie<br>Beneficia<br>Owned<br>Following<br>Reported<br>Transacti | e<br>s<br>Illy<br>g                 | 10.<br>Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | Beneficial<br>Ownership<br>t (Instr. 4) |
|   |   |  |  | Co                   | de V   | (A)  | (D)  | Date<br>Exercisa     |   | Expiration<br>Date   | Title                     | OI<br>N  | mount<br>r<br>umber<br>f Shares |  | (Instr. 4)  | 011(3)                              |  |   |
| Stock<br>Option<br>(Right to<br>Buy)  | \$4.3   | 02/15/2022                                 |  | А                    |  | 161,600  |  | (3)                  | (   | )2/14/2032   | Comn<br>Stoc              |  | 61,600                          | \$0.00   | 161,6   | 00                                  | D  |   |

## Explanation of Responses:

1. These shares represent restricted stock units (the "RSUs"). Each RSU represents a contingent right to receive one share of the common stock of the Issuer. The shares underlying the RSUs vest in four equal annual installments on each of February 15, 2023, February 15, 2024, February 15, 2025 and February 15, 2026, subject to the Reporting Person's continuous service with the Issuer as of each such date.

2. Includes 214 shares acquired by the Reporting Person pursuant to the Issuer's Employee Stock Purchase Plan.

3. The option shall vest over a period of four years as follows: 25% of the total number of shares subject to the option shall vest on February 15, 2023; and the remainder will vest 1/48th of total number of shares subject to the option monthly thereafter over the remaining three years, subject to the Reporting Person's continuous service with the Issuer as of each such date.

## **Remarks:**

SEC Form 4

/s/ Mark Ballantyne, Attorney-02/17/2022

in-Fact

\*\* Signature of Reporting Person

Date

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

 $\ast$  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.