FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| STATEMENT | OF | CHANGES | IN   | BENEFICIAL  | OWNERSHIP   |
|-----------|----|---------|------|-------------|-------------|
|           | O. | CHANCES | 11.4 | DEILE IOIAL | CAMINETONIN |

| OMB APPROVAL        |           |  |  |  |  |  |  |  |  |
|---------------------|-----------|--|--|--|--|--|--|--|--|
| OMB Number:         | 3235-0287 |  |  |  |  |  |  |  |  |
| Estimated average b | ourden    |  |  |  |  |  |  |  |  |
| 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

|  |  |            |                |                                 | OI  | Secu  | 011 30    | (ii) of the | inves  | sunent           | Con    | ipany Act   | 01 1940       |               |   |   |                |  |                                       |                         |  |
|--|--|------------|----------------|---------------------------------|---|---|-----------|-------------|--|------------------|--------|---|---------------|---------------|---|---|----------------|--|---------------------------------------|-------------------------|--|
| 1. Name and Address of Reporting Person* <u>Bergstrom Donald A</u>   |  |            |                |                                 | 2. Issuer Name and Ticker or Trading Symbol Relay Therapeutics, Inc. [ RLAY ] |   |           |             |  |                  |        |   |               |               | elationship o<br>eck all applio<br>Directo          | able)   | g Pers         | son(s) to Iss  |                                       |                         |  |
| (Last) (First) (Middle) C/O RELAY THERAPEUTICS, INC. 399 BINNEY STREET, 2ND FLOOR  |  |            |                |                                 |   | 3. Date of Earliest Transaction (Month/Day/Year) 09/08/2022 |           |             |  |                  |        |   |               |               |   | Officer<br>below)   |                |  | below)                                | Other (specify<br>elow) |  |
| (Street) CAMBRIDGE MA 02139  (City) (State) (Zip)  |  |            |                | _ 4. I                          | 4. If Amendment, Date of Original Filed (Month/Day/Year)                      |   |           |             |  |                  |        |   | 6. In Line    | I             |   |   |                |  |                                       |                         |  |
|  |  | Tab        | ole I - Nor    | n-Deriv                         | vativ   | e Se  | curit     | ties Ac     | auir   | red. C           | )isr   | osed o  | f. or I       | Bene          | eficiall  | v Owned   |                |  |                                       |                         |  |
| 1. Title of Security (Instr. 3)  2. Transi Date  |  |            | saction        |                                 |   | 3.<br>Transaction<br>Code (Instr.                           |           | tion        | 4. Securities Acquired (A<br>Disposed Of (D) (Instr. 3,        |                  | (A) or | 5. Amou<br>Securitie<br>Benefici<br>Owned F   | nt of sally   | Form<br>(D) o | n: Direct<br>r Indirect<br>istr. 4)                 | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership   |                |  |                                       |                         |  |
|  |  |            |                |                                 |   |   |           |             | Code   | v                | Amount | (A<br>(D  | () or<br>()   | Price         | Reported<br>Transact<br>(Instr. 3                   | tion(s)   |                |  | (Instr. 4)                            |                         |  |
| Common Stock 09  |  |            |                | 09/0                            | 08/202  | 3/2022  |           |             |  | M <sup>(1)</sup> |        | 25,00   | 0             | A             | \$4.12  | 114,  | 659(2)         |  | D                                     |                         |  |
| Common Stock 09/08   |  |            | 08/202         | /2022 S <sup>(1)</sup> 25,000 D |   | \$30  | 89,659(2) |             |  | D                |        |   |               |               |   |   |                |  |                                       |                         |  |
|  | Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) |            |                |                                 |   |   |           |             |  |                  |        |   |               |               |   |   |                |  |                                       |                         |  |
| 1. Title of Derivative Conversion or Exercise Price of Derivative Security  (Instr. 3)  2. Conversion Date (Month/Day/Year)  3. Transaction Date Execution Date (Month/Day/Year)  (Month/Day/Year) |  |            | Date, Transact |                                 |   |   |           | Expi        | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |                  |        | 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. Numbe<br>derivative<br>Securities<br>Beneficia<br>Owned<br>Following<br>Reported<br>Transactio<br>(Instr. 4) | e<br>S<br>Illy | Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4 | Beneficial<br>Ownership<br>(Instr. 4) |                         |  |
|  |  |            |                |                                 | Code  | v   | (A)       | (D)         | Date<br>Exer   | e<br>rcisable    |        | xpiration<br>ate  | Title         | 0<br>N<br>0   | amount<br>or<br>lumber<br>of<br>Shares              |   |                |  |                                       |                         |  |
| Stock<br>Option<br>(Right to<br>Buy)   | \$4.12   | 09/08/2022 |                |                                 | М   |   |           | 25,000      |  | (3)              | 0-     | 4/09/2028   | Comm<br>Stocl |               | 25,000  | \$0.00  | 109,45         | 56   | D                                     |                         |  |

## **Explanation of Responses:**

- 1. The reported transaction was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on January 7, 2022.
- 2. Includes 80,894 shares underlying restricted stock units.
- 3. Twenty-five percent (25%) of the shares underlying this option vested on April 2, 2019 and the remainder shall vest in equal quarterly installments over the remaining thirty-six (36) months, subject to the reporting person's continued employment through each vesting date.

## Remarks:

/s/ Brian Adams, as attorney-in-09/08/2022

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.