FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| 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*     Alam Kamran                            |  |            |        |                                     | 2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>Taysha Gene Therapies, Inc.</u> [ TSHA ] |   |                 |                      |   | (Ch  | eck all applic<br>Directo                             | cable)                      | 10   | on(s) to Issuer  10% Owner Other (specify |   |   |
|--|--|------------|--------|-------------------------------------|--|---|-----------------|----------------------|---|--|---|-----------------------------|--|---|---|---|
| (Last) (First) (Middle) C/O TAYSHA GENE THERAPIES, INC.                          |  |            |        |                                     | 3. Date of Earliest Transaction (Month/Day/Year) 04/06/2022                                    |   |                 |                      |   | below)   |   |                             | low)<br>er   | ´   |   |   |
| 3000 PEGASUS PARK DRIVE, STE 1430  |  |            |        |                                     | 4. If Amendment, Date of Original Filed (Month/Day/Year)                                       |   |                 |                      |   | 6.1  | 6. Individual or Joint/Group Filing (Check Applicable |                             |  |   |   |   |
| (Street)   | 5 T  | x          | 75247  | 4.1                                 | II AIIIE   | nument, t   | Dale            | oi Originai Fii      | eu (Monthi)   | ay/ real)  | Line  | e)<br><mark>X</mark> Form f | iled by One<br>iled by More                                | Reporting                                 | Persor  | ı |
| (City)   | (S   | tate)      | (Zip)  |                                     |  |   |                 |                      |   |  |   | F 61301                     |  |   |   |   |
| Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned |  |            |        |                                     |  |   |                 |                      |   |  |   |                             |  |   |   |   |
| Date   |  |            |        | Fransactior<br>te<br>onth/Day/Yo    | Execution Date,  |   | Code (Instr. 5) |                      |   |  | Beneficia   | es<br>ally<br>Following     | 6. Ownersh<br>Form: Dire<br>(D) or Indir<br>(I) (Instr. 4) | ct C                                      | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |   |
|  |  |            |        |                                     |  |   | Code            | Amount               | (A) or<br>(D)                                       | Price  | Transact<br>(Instr. 3                                 | tion(s)                     |  | (   |   |   |
|  | 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)                              | rative Conversion Date Execution Date, Trity or Exercise (Month/Day/Year) if any C   |            | Code ( | ansaction of ode (Instr. Derivative |  | 6. Date Exercisable and Expiration Date (Month/Day/Year)  (Month/Day/Year)  Derivative Sec (Instr. 3 and 4) |                 | ies<br>g<br>Security | 8. Price of<br>Derivative<br>Security<br>(Instr. 5) | 9. Number<br>derivative<br>Securities<br>Beneficiall<br>Owned<br>Following<br>Reported<br>Transactio<br>(Instr. 4) | re Owner<br>Form:<br>Direct<br>or Indi<br>g (I) (Ins  |                             | Beneficial<br>Ownership<br>ect (Instr. 4)                  |   |   |   |
|  |  |            |        | Code                                | v  | (A)   | (D)             | Date<br>Exercisable  | Expiration<br>Date                                  | Title  | Amount<br>or<br>Number<br>of<br>Shares                |                             |  |   |   |   |
| Employee<br>Stock<br>Option<br>(right to<br>buy)                                 | \$6.52   | 04/06/2022 |        | A                                   |  | 40,000  |                 | (1)                  | 04/06/2032  | Common<br>Stock  | 40,000  | \$0.00                      | 40,000   |   | )   |   |

## **Explanation of Responses:**

1. 25% of the total number of shares underlying the option shall vest and become exercisable on April 6, 2023 and the remainder shall vest and become exercisable in 36 equal monthly installments thereafter, subject to the Reporting Person's continuous service through each applicable vesting date.

## Remarks:

/s/ Kamran Alam

04/08/2022

\*\* Signature of Reporting Person

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.