FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| 1 | OMB APPROVAL |           |  |  |  |  |  |  |  |
|---|--------------|-----------|--|--|--|--|--|--|--|
|   | OMB Number:  | 3235-0287 |  |  |  |  |  |  |  |

0.5

Estimated average burden hours per response:

| Check this box if no longer subject to |
|--|
| Section 16. Form 4 or Form 5           |
| obligations may continue. See          |
| Instruction 1(h)                       |

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) 2. Issuer Name and Ticker or Trading Symbol 1. Name and Address of Reporting Person CRISPR Therapeutics AG [ CRSP ] Kulkarni Samarth Director 10% Owner Officer (give title Other (specify below) below) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) 09/01/2018 Chief Executive Officer C/O CRISPR THERAPEUTICS, INC. 610 MAIN STREET 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) (Street) Form filed by One Reporting Person **CAMBRIDGE** 02139 MA Form filed by More than One Reporting (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 1. Title of Security (Instr. 3) 2. Transaction 2A. Deemed 5. Amount of 6. Ownership 7. Nature Execution Date, Transaction Securities Form: Direct of Indirect (Month/Day/Year if any (Month/Day/Year) Code (Instr. 8) (D) or Indirect (I) (Instr. 4) Beneficially Beneficial Owned Following Ownership Reported (Instr. 4) (A) or (D) Transaction(s) Code Amount Price (Instr. 3 and 4) Common Shares 09/01/2018 F<sup>(1)</sup> 741 \$56.67 146,531 D D Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 1. Title of 3A. Deemed 6. Date Exercisable and 10. 11. Nature 3. Transaction 5. Number 7. Title and 8. Price of 9. Number of

| Security<br>(Instr. 3) | Security<br>(Instr. 3) | or Exercise<br>Price of<br>Derivative<br>Security | (Month/Day/Year) | if any<br>(Month/Day/Year) | Code (Instr.<br>8) |     | Derivative<br>Securities<br>Acquired<br>(A) or<br>Disposed<br>of (D)<br>(Instr. 3, 4<br>and 5) |                     | (Month/Day/Year) |       | Securities<br>Underlying<br>Derivative<br>Security (Instr. 3<br>and 4) |  | Security<br>(Instr. 5) | Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | Beneficial<br>Ownership<br>(Instr. 4) |
|------------------------|------------------------|---|------------------|----------------------------|--------------------|-----|--|---------------------|------------------|-------|--|--|------------------------|--|--|---------------------------------------|
|                        |                        |   |                  | Code                       | v                  | (A) | (D)  | Date<br>Evercisable | Expiration       | Title | Amount<br>or<br>Number<br>of   |  |                        |  |  |                                       |

## Explanation of Responses:

1. On December 1, 2017, the reporting person was granted 26,667 restricted stock units. On September 1, 2018, 1,667 restricted stock units vested, and the reporting person forfeited 741 common shares to the issuer to satisfy tax withholding obligations.

## Remarks:

/s/ Michael Esposito, attorney-

09/04/2018

in-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.