

| OMB APPROVAL | |
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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

| | | |
|---|---|--|
| 1. Name and Address of Reporting Person* <u>Ho Tony W</u> _____ (Last) (First) (Middle) <u>C/O CRISPR THERAPEUTICS, INC.</u> <u>610 MAIN STREET</u> _____ (Street) <u>CAMBRIDGE MA 02139</u> _____ (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>CRISPR Therapeutics AG [CRSP]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director _____ 10% Owner _____ Officer (give title below) _____ Other (specify below) _____ <u>Executive VP, Head of R&D</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>03/10/2021</u> | |
| 4. If Amendment, Date of Original Filed (Month/Day/Year) | | |

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|----------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Shares | 03/10/2021 | | M | | 4,583 ⁽¹⁾ | A | (2) | 40,445 | D | |
| Common Shares | 03/10/2021 | | F | | 2,141 ⁽³⁾ | D | \$124.15 | 38,304 | D | |

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----|--|-----------------|---|--|--|---|--|-------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | | Title |
| Stock Option (Right to Buy) | \$133.88 | 03/11/2021 | | A | | 23,334 | | (4) | 03/11/2031 | Common Shares | 23,334 | \$0.00 | 23,334 | D | |
| Restricted Stock Units | (2) | 03/11/2021 | | A | | 9,000 | | (5) | (5) | Common Shares | 9,000 | \$0.00 | 9,000 | D | |

Explanation of Responses:

- This restricted stock unit award was granted on March 10, 2020 with respect to 13,750 Common Shares, with (i) one third of the shares vesting on March 10, 2021, (ii) one third of the shares vesting on March 10, 2022, and (iii) one third of the shares vesting on March 10, 2023.
- Each restricted stock unit represents a contingent right to receive one share of CRSP Common Shares.
- Amount reported represents the number of shares required to be sold by the reporting person to cover the tax withholding obligation in connection with the vesting of these restricted stock units. This sale is mandated by the Company's RSU Settlement Policy to fund the tax withholding obligation and does not represent a discretionary trade by the reporting person.
- This option was granted on March 11, 2021 with respect to 23,334 Common Shares. 100% of the shares will vest in 48 equal monthly installments, with the first vesting date of April 11, 2021.
- This restricted stock unit award was granted on March 11, 2021 with respect to 9,000 Common Shares, with (i) one quarter of the shares vesting on March 11, 2022, (ii) one quarter of the shares vesting on March 11, 2023, (iii) one quarter of the shares vesting on March 11, 2024, and (iv) one quarter of the shares vesting on March 11, 2025.

Remarks:

Executive Vice President, Head of Research & Development

/s/ Michael Esposito, attorney-in-fact 03/12/2021

** 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.