

| OMB APPROVAL                                 |           |
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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

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

|  |   |   |  |
|--|---|---|--|
| 1. Name and Address of Reporting Person*<br><u>Novak Rodger</u><br><hr/> (Last) (First) (Middle)<br>C/O CRISPR THERAPEUTICS, INC.<br>200 SIDNEY STREET<br><hr/> (Street)<br>CAMBRIDGE MA 02139<br><hr/> (City) (State) (Zip) | 2. Date of Event Requiring Statement (Month/Day/Year)<br>10/18/2016 | 3. Issuer Name and Ticker or Trading Symbol<br><u>CRISPR Therapeutics AG [ CRSP ]</u>   |  |
|  |   | 4. Relationship of Reporting Person(s) to Issuer (Check all applicable)<br><input checked="" type="checkbox"/> Director 10% Owner<br><input checked="" type="checkbox"/> Officer (give title below) Other (specify below)<br><u>Chief Executive Officer</u> | 5. If Amendment, Date of Original Filed (Month/Day/Year)<br><hr/> 6. Individual or Joint/Group Filing (Check Applicable Line)<br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> Form filed by More than One Reporting Person |

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Shares                   | 1,215,005   | D  |   |

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) |                 | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|-----------------|---|--|--|---|
|  | Date Exercisable   | Expiration Date |   |  |  |   |
| Stock Options (Right to Buy)               | (1)  | 09/10/2025      | Common Shares   | 268,093  | 1.81   | D   |

**Explanation of Responses:**

1. This option was granted on September 10, 2015 with respect to 268,093 Common Shares with 94,950 shares immediately vested on the grant date and the remaining 173,143 shares vest in 31 equal monthly installments thereafter.

**Remarks:**

/s/ Rodger Novak 10/18/2016

\*\* 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 5 (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.