FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

| Washington, | D.C. 20549 |
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

**OMB APPROVAL** 3235-0287 Estimated average burden hours per response: 0.5

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*     Nielsen Jack            |  |  |       |                                      |                              | 2. Issuer Name <b>and</b> Ticker or Trading Symbol Harmony Biosciences Holdings, Inc. [HRMY] |           |               |                     |   |                    |   |                                    |   | 5. Relationship of Report (Check all applicable)  X Director  Officer (give titl) |  |  | 10% Own   |  |
|---|--|--|-------|--------------------------------------|------------------------------|--|-----------|---------------|---------------------|---|--------------------|---|------------------------------------|---|---|--|--|---|--|
| (Last) (First) (Middle) C/O 630 W. GERMANTOWN PIKE, SUITE 215     |  |  |       |                                      |                              | 3. Date of Earliest Transaction (Month/Day/Year) 08/20/2020                                  |           |               |                     |   |                    |   |                                    |   | below   | I)   |  | belov   | v)                                       |
| (Street) PLYMOUTH MEETING PA 19462                                |  |  |       |                                      | 4. If A                      | 4. If Amendment, Date of Original Filed (Month/Day/Year)                                     |           |               |                     |   |                    |   |                                    | 6. Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person |   |  |  |   |  |
| (City)  | (St  | ate) (Z                                    | Zip)  |                                      |                              |  |           |               |                     |   |                    |   |                                    |   |   |  |  |   |  |
|   | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned   |  |       |                                      |                              |  |           |               |                     |   |                    |   |                                    |   |   |  |  |   |  |
| 1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/N |  |  |       |                                      | Execution Date,              |  |           | Transaction D |                     | 4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4 5) |                    |   |                                    | 5. Amount of Securities Beneficially Owned Following Reported   |   | Form:  | nership<br>Direct<br>Indirect<br>str. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4)             |  |
|   |  |  |       |                                      |                              | Code   | v         | Amount        | (A) or<br>(D)       | Price   | e                  | Transaction(s)<br>(Instr. 3 and 4)  |                                    |   |   | (instr. 4)   |  |   |  |
| Common Stock 08/20/2  |  |  |       | 08/20/20                             | )20                          | 20   |           |               | P                   |   | 2,736              | A   | \$3                                | 35  | 2,736   |  |  | I   | See<br>Footnote <sup>(1)</sup>           |
| Common Stock 0  |  |  |       | 08/21/2020                           |                              |  |           | P             |                     | 24,812  | A                  | \$2   | <b>4</b> <sup>(2)</sup>            | 27,548  |   |  | I  | See<br>Footnote <sup>(1)</sup>                                    |  |
| Common Stock 08/21/2  |  |  |       |                                      | )20                          |  |           |               | P                   |   | 7,352              | A   | \$34                               | l.1 <sup>(3)</sup>  | 34,900  |  |  | I   | See<br>Footnote <sup>(1)</sup>           |
| Common Stock  |  |  |       | 08/24/2020                           |                              |  |           | P             |                     | 3,057   | A                  | \$34  | 1.3 <sup>(4)</sup>                 | (4) 37,957  |   |  | I  | See<br>Footnote <sup>(1)</sup>                                    |  |
|   | 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)               | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security  | 3. Transaction<br>Date<br>(Month/Day/Year) | Execu | eemed<br>ution Date,<br>th/Day/Year) | 4.<br>Transa<br>Code (<br>8) | action<br>(Instr.  | 5. Number |               |                     |   | ate                | 7. Title and<br>Amount of<br>Securities<br>Underlying<br>Derivative<br>Security (Inst<br>3 and 4) |                                    | 8. Price of<br>Derivative<br>Security<br>(Instr. 5)   |   | 9. Number derivative Securitie Beneficial Owned Following Reported Transact (Instr. 4) | e<br>s<br>ally<br>g                      | 10.<br>Ownersh<br>Form:<br>Direct (D<br>or Indirec<br>(I) (Instr. | Beneficial<br>Ownership<br>ct (Instr. 4) |
|   |  |  |       | Code                                 |                              | v  | (A)       | (D)           | Date<br>Exercisable |   | Expiration<br>Date |   | Amou<br>or<br>Numb<br>of<br>Share: | er  |   |  |  |   |  |

## **Explanation of Responses:**

- 1. The shares are held of record by Vivo Capital Fund IX, L.P. Vivo Capital IX, LLC, Jack Nielsen shares voting and dispositive power with respect to the shares held of record by Vivo Capital Fund IX, L.P with other managing members, but disclaims beneficial ownership of such shares except to the extent of his individual pecuniary interest therein.
- 2. The price reported herein is the public offering price.
- 3. The price reported herein is a weighted average price. These shares were acquired on the open market in multiple transactions at prices ranging from \$33.3 to \$35.0, inclusive. The reporting person undertakes to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares acquired at each separate price within the ranges set forth in footnote (3) to this Form 4.
- 4. The price reported herein is a weighted average price. These shares were acquired on the open market in multiple transactions at prices ranging from \$35.0 to \$33.8, inclusive. The reporting person undertakes to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares acquired at each separate price within the ranges set forth in footnote (4) to this Form 4.

## Remarks:

/s/ Stephanie Wisdo, Attorney-08/24/2020 in-fact for Jack Bech Nielsen

\*\* 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.