| SEC Form 4 |
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FORM 4

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

| OMB Number: | 3235-0287 | | | | | | | |
|--------------------------|-----------|--|--|--|--|--|--|--|
| Estimated average burden | | | | | | | | |
| hours per response | : 0.5 | | | | | | | |

| to Section 16. Fo obligations may 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 | | Estimated average burden hours per response: 0.5 | | |
|---|---------------|----------------|---|---|---|--|--|
| 1. Name and Address of Reporting Person* Gregory Philip D (Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET | | | 2. Issuer Name and Ticker or Trading Symbol <u>bluebird bio, Inc.</u> [BLUE] 3. Date of Earliest Transaction (Month/Day/Year) 08/02/2021 | (Check all applicab Director X Officer (giv below) | 10% Owner | | |
| (Street) CAMBRIDGE (City) | MA (State) | 02142 (Zip) | 4. If Amendment, Date of Original Filed (Month/Day/Year) | Line) X Form filed | t/Group Filing (Check Applicable by One Reporting Person by More than One Reporting | | |

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) | | | | | | 5. Amount of Securities Beneficially Owned Following Reported | 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 | Transaction(s) (Instr. 3 and 4) | | (1150. 4) |
| Common Stock ⁽¹⁾ | 08/02/2021 | | A | | 33,927 | A | \$0.00 | 80,756 | D | |
| Common Stock ⁽²⁾ | 08/02/2021 | | A | | 33,926 | A | \$0.00 | 114,682 | D | |

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

| | | | (371 | , | , | | , | • • | | | | , | | | |
|---|---|--|---|------------------------------|---|--|-----|---------------------|-----------------------|---|---|--|--|--|--|
| 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. Transa Code (8) | | 5. Number of Expiration Date Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | ate | Secu Unde Deriv | unt of rities rlying ative rity (Instr. | 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 | Amount or Number of Shares | | | | |

Explanation of Responses:

1. Restricted stock unit awards vest over a two-year period at the rate of 40% on August 2, 2022 and 60% on August 2, 2023.

2. Restricted stock unit awards shall vest upon the satisfaction of certain performance criteria.

Remarks:

/s/ Helen C. Fu, Attorney-in-Fact

08/04/2021

** 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.