Davidson David Form 4 March 15, 2019

FORM 4

OMB APPROVAL OMB

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Number:

Expires:

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

January 31, 2005

3235-0287

Form 4 or Form 5 obligations may continue. **SECURITIES**

Estimated average burden hours per response...

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940 See Instruction

0.5

1(b).

(Print or Type Responses)

| 1. Name and Address of Reporting Person * Davidson David | 2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE] | 5. Relationship of Reporting Person(s) to Issuer | | | |
|--|---|---|--|--|--|
| (Last) (First) (Middle) | 3. Date of Earliest Transaction | (Check all applicable) Director 10% OwnerX Officer (give title Other (specify below) Chief Medical Officer | | | |
| C/O BLUEBIRD BIO, INC., 60 BINNEY STREET | (Month/Day/Year) 03/13/2019 | | | | |
| (Street) | 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person | | | |
| CAMBRIDGE, MA 02142 | | Form filed by More than One Reporting Person | | | |

| (City) | (State) | (Zip) 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) ctioner Disposed of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following | 6. Ownership Form: Direct (D) or Indirect | 7. Nature of Indirect Beneficial Ownership (Instr. 4) | |
| | | | Code V | Amount | (A) or (D) | Price | Reported Transaction(s) (Instr. 3 and 4) | | | |
| Common Stock | 03/13/2019 | | M | 3,101 | A | \$ 5.5004 | 34,717 | D | | |
| Common Stock | 03/13/2019 | | S <u>(1)</u> | 1,700 | D | \$ 145.9594 (2) | 33,017 | D | | |
| Common Stock | 03/13/2019 | | S <u>(1)</u> | 1,401 | D | \$ 146.9482 (3) | 31,616 | D | | |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)

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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. Transactic Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | ive Expiration Date (Month/Day/Year) of | | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | |
|---|---|---|---|--|---|---|--------------------|---|--|
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Stock Option (right to buy) | \$ 5.5004 | 03/13/2019 | | M | 3,10 | 1 (4) | 01/16/2023 | Common Stock | 3,101 |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Davidson David

C/O BLUEBIRD BIO, INC. 60 BINNEY STREET CAMBRIDGE, MA 02142

Chief Medical Officer

Signatures

/s/ Jason F. Cole, Attorney-in-Fact

03/15/2019

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- (1) The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on January 10, 2019.
- The range in prices for the transaction reported on this line was \$145.50 to \$146.45. The average weighted price was \$145.9594. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- The range in prices for the transaction reported on this line was \$146.65 to \$147.20. The average weighted price was \$146.9482. The (3) reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.

Reporting Owners 2

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This option to purchase shares of our common stock was granted on January 16, 2013 with performance-based vesting criteria that were (4) met as of January 1, 2013. The shares underlying these options vested as follows: 25% vested on January 1, 2014, with the remainder of the shares vesting in equal monthly installments over the following three years.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.