

bluebird bio, Inc.  
Form 3  
June 18, 2013

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

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,  
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
30(h) of the Investment Company Act of 1940

(Print or Type Responses)

|   |         |                                      |  |  |
|---|---------|--------------------------------------|--|--|
| 1. Name and Address of Reporting Person *             |         | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol                                |  |
| Davidson David  |         | (Month/Day/Year)                     | bluebird bio, Inc. [BLUE]  |  |
| (Last)  | (First) | (Middle)                             | 06/18/2013   |  |
| C/O BLUEBIRD BIO, INC., 840 MEMORIAL DRIVE, 4TH FLOOR |         |                                      | 4. Relationship of Reporting Person(s) to Issuer                           | 5. If Amendment, Date Original Filed(Month/Day/Year)                   |
| (Street)  |         |                                      | (Check all applicable)   |  |
| CAMBRIDGE, MA 02139                                   |         |                                      | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner       | 6. Individual or Joint/Group Filing(Check Applicable Line)             |
| (City)  | (State) | (Zip)                                | <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
|   |         |                                      | (give title below) (specify below)   | <input type="checkbox"/> Form filed by More than One Reporting Person  |
|   |         |                                      | Chief Medical Officer  |  |

**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) |
|---------------------------------|---|--|---|
|---------------------------------|---|--|---|

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

SEC 1473 (7-02)

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**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 of Derivative Security: Direct (D) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
|  | Date Exercisable      Expiration Date                    | Title      Amount or Number of  | Price of Derivative Security                           | Derivative Security: Direct (D)                      |   |

|                             |       |            |              | Shares  |         | or Indirect<br>(I)<br>(Instr. 5) |   |
|-----------------------------|-------|------------|--------------|---------|---------|----------------------------------|---|
| Stock Option (right to buy) | Â (1) | 04/13/2022 | Common Stock | 157,239 | \$ 2.09 | D                                | Â |
| Stock Option (right to buy) | Â (2) | 01/16/2023 | Common Stock | 103,151 | \$ 5.5  | D                                | Â |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |                         |       |
|--|---------------|-----------|-------------------------|-------|
|  | Director      | 10% Owner | Officer                 | Other |
| Davidson David<br>C/O BLUEBIRD BIO, INC.<br>840 MEMORIAL DRIVE, 4TH FLOOR<br>CAMBRIDGE, MA 02139 | Â             | Â         | Â Chief Medical Officer | Â     |

## Signatures

/s/ Linda C. Bain, 06/18/2013  
Attorney-in-Fact

\*\*Signature of Reporting Person Date

## Explanation of Responses:

- \* 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).
- (1) This option vests over a four-year period, at a rate of twenty-five percent (25%) on February 13, 2013 and in 36 equal monthly installments thereafter.  
This option vests as follows: (i) 67,048 shares vest at a rate of twenty-five percent (25%) on January 1, 2014 and in 36 equal monthly installments thereafter; (ii) 10,315 shares vest at a rate of twenty-five percent (25%) on April 1, 2014 and in 36 equal monthly installments thereafter; and (iii) 25,788 shares vest at a rate of twenty-five percent (25%) on May 1, 2014 and in 36 equal monthly installments thereafter.
- (2)

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.