

bluebird bio, Inc.  
Form 4  
October 10, 2014

**FORM 4**

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

OMB APPROVAL

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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 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 \*  
Finer Mitchell H.

(Last) (First) (Middle)

C/O BLUEBIRD BIO, INC., 150  
SECOND STREET

(Street)

CAMBRIDGE, MA 02141

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
bluebird bio, Inc. [BLUE]

3. Date of Earliest Transaction  
(Month/Day/Year)  
10/08/2014

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

Chief Scientific Officer

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**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) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
|                                 |                                      |  | Code                           | V   | Amount or Price   |  |   |
| Common Stock                    | 10/08/2014                           |  | M                              |   | 10,890 A \$ 2.09  | 10,890   | D   |
| Common Stock                    | 10/08/2014                           |  | S                              |   | 10,890 D \$ 34.14   | 0  | D   |
| Common Stock                    | 10/08/2014                           |  | M                              |   | 7,702 A \$ 2.09   | 7,702  | D   |
| Common Stock                    | 10/08/2014                           |  | S                              |   | 7,702 D \$ 33.56  | 0  | D   |
| Common Stock                    | 10/08/2014                           |  | M                              |   | 15,926 A \$ 2.09  | 15,926   | D   |

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Common Stock 10/08/2014 S 15,926 D \$ 33.07 0 D

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

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(9-02)

**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. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Stock Option (right to buy)                | \$ 2.09  | 10/08/2014                           |  | M                              | 10,890  | <u>(1)</u> 07/13/2021                                    | Common Stock  | 10,890                        |
| Stock Option (right to buy)                | \$ 2.09  | 10/08/2014                           |  | M                              | 7,702   | <u>(2)</u> 07/13/2021                                    | Common Stock  | 7,702                         |
| Stock Option (right to buy)                | \$ 2.09  | 10/08/2014                           |  | M                              | 15,926  | <u>(2)</u> 06/04/2022                                    | Common Stock  | 15,926                        |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                          |       |
|---|---------------|-----------|--------------------------|-------|
|   | Director      | 10% Owner | Officer                  | Other |
| Finer Mitchell H.<br>C/O BLUEBIRD BIO, INC.<br>150 SECOND STREET<br>CAMBRIDGE, MA 02141 |               |           | Chief Scientific Officer |       |

## Signatures

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

10/10/2014

\_\_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) This option vests over a four-year period, at a rate of twenty-five percent (25%) on April 15, 2012 and in 36 equal monthly installments thereafter.
  - (2) This option vests over a four-year period, at a rate of twenty-five percent (25%) on May 1, 2013 and in 36 equal monthly installments thereafter.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.  
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