

bluebird bio, Inc.  
Form 4  
August 12, 2015

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
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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 \*  
Mandell James

(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)  
08/10/2015

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)

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	08/10/2015		M		1,500	A	\$ 21.43	1,500	D	
Common Stock	08/10/2015		S <sup>(1)</sup>		626	D	\$ 146.8308	874	D	
Common Stock	08/10/2015		S <sup>(1)</sup>		299	D	\$ 147.8835	575	D	
Common Stock	08/10/2015		S <sup>(1)</sup>		194	D	\$ 148.7503	381	D	

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Common Stock	08/10/2015	S <sup>(1)</sup>	164	D	\$ 150.2816	217	D
					(5)		
Common Stock	08/10/2015	S <sup>(1)</sup>	127	D	\$ 151.7102	90	D
					(6)		
Common Stock	08/10/2015	S <sup>(1)</sup>	90	D	\$ 152.8644	0	D
					(7)		

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. Filing Date of Underlying Securities (Instr. 3 and 4)	
						Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 21.43	08/10/2015		M	1,500	(8)	01/08/2024	Common Stock	1,500

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Mandell James C/O BLUEBIRD BIO, INC. 150 SECOND STREET CAMBRIDGE, MA 02141	X			

## Signatures

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

08/12/2015

\_\_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 sales reported in the Form 4 were effectd pursuant to a 10b5-1 trading plan adopted by the reporting person on July 8, 2015.  
The range in prices for the transaction reported on this line was \$146.34 to 147.31. The average weighted price was \$146.8308. 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.
- (3) The range in prices for the transaction reported on this line was \$147.45 to \$148.25. The average weighted price was \$147.8835. 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.
- (4) The range in prices for the transaction reported on this line was \$148.66 to \$149.49. The average weighted price was \$148.7503. 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.
- (5) The range in prices for the transaction reported on this line was \$149.81 to \$150.81. The average weighted price was \$150.2816. 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.
- (6) The range in prices for the transaction reported on this line was \$151.38 to \$152.36. The average weighted price was \$151.7102. 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.
- (7) The range in prices for the transaction reported on this line was \$152.61 to \$153.00. The average weighted price was \$152.8644. 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.
- (8) This option vests ratably over three years in annual installments, commencing on January 8, 2014.

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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