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# FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no lo	nger subject to
Section 16. Form 4 or	
obligations may contin	ue. See
Instruction 1(b).	

# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

#### OMB APPROVAL OMB Number: 3235-0287

I	Estimated average burden hours per response:	,	0.5
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1 I. Nume and Address of Reporting Ferson		'son <sup>*</sup>	2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [BLUE]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
				X	Director	10% Owner			
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET (Street) CAMBRIDGE MA 02141		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 09/08/2015		Officer (give title below)	Other (specify below)			
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line)					
		02141		X	Form filed by One Re Form filed by More th Person				
(City)	(State)	(Zip)							
	-	Table I - Non-Deriva	ative Securities Acquired, Disposed of, or Benefi	cially	Owned				

### 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. Transa Code ( 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
			Code	v	Amount (A) or Brice		Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		
Common Stock	09/08/2015		М		7,000	A	\$2.0864	7,000	D		
Common Stock	09/08/2015		S <sup>(1)</sup>		500	D	\$130.679 <sup>(2)</sup>	6,500	D		
Common Stock	09/08/2015		S <sup>(1)</sup>		2,550	D	\$131.4486 <sup>(3)</sup>	3,950	D		
Common Stock	09/08/2015		S <sup>(1)</sup>		600	D	\$132.2183 <sup>(4)</sup>	3,350	D		
Common Stock	09/08/2015		<b>S</b> <sup>(1)</sup>		1,300	D	\$133.6437(5)	2,050	D		
Common Stock	09/08/2015		<b>S</b> <sup>(1)</sup>		2,050	D	\$134.4642(6)	0	D		

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

	(3-, P, - P, - P, - P,														
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)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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				
Stock Option (right to buy)	\$2.0864	09/08/2015		М			7,000	(7)	07/13/2021	Common Stock	7,000	\$0.00	29,008	D	

## Explanation of Responses:

1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on June 25, 2015.

2. The range of prices for the transaction reported on this line was \$130.00 to \$130.95. The average weighted price was \$130.6790. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

3. The range of prices for the transaction reported on this line was \$131.04 to \$131.95. The average weighted price was \$131.4486. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

4. The range of prices for the transaction reported on this line was \$132.14 to \$132.40. The average weighted price was \$132.2183. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

5. The range of prices for the transaction reported on this line was \$133.16 to \$134.14. The average weighted price was \$133.6437. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

6. The range of prices for the transaction reported on this line was \$134.165 to \$135.00. The average weighted price was \$134.4642. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

7. This option vests over a four-year period in 48 equal monthly installments beginning on April 15, 2011

**Remarks:** 

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

09/10/2015

\*\* Signature of Reporting Person

Fact

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.