SEC Form 4	
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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

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 Estimated average burden

Estimated average burden	
hours per response:	0.5

1. Nume and Address of Reporting reison			2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]		tionship of Reporting Perso all applicable) Director	erson(s) to Issuer 10% Owner	
(Last) C/O BLUEBIRE 150 SECOND S		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 11/10/2014	- X	Officer (give title below) Chief Operating (	Other (specify below) Officer	
(Street) CAMBRIDGE MA 02141 (City) (State) (Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	ridual or Joint/Group Filing Form filed by One Repor Form filed by More than Person	rting Person	

## Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Se	ecurity (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)			posed Of (D) (Instr. 3, 4 and 5) Securities Form: D Beneficially (D) or In Owned Following (I) (Instr		7. Nature of Indirect Beneficial Ownership
				Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common S	Stock	11/10/2014		М		7,500	A	\$2.09	7,500	D	
Common S	Stock	11/10/2014		<b>S</b> <sup>(1)</sup>		6,600	D	\$41.1967(2)	900	D	
Commons	Stock	11/10/2014		<b>S</b> <sup>(1)</sup>		900	D	\$41.81 <sup>(3)</sup>	0	D	

 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(e.g., puts, calls, v	warrants, options, c	onvertible securities	)
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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)	\$2.09	11/10/2014		М			7,500	(4)	07/13/2021	Common Stock	7,500	\$0.00	154,307	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 October 11, 2013.

2. The range of prices for the transaction reported on this line was \$40.69 to \$41.64. The average weighted price was \$41.1967. 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 \$41.70 to \$41.84. The average weighted price was \$41.81. 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. This option vests over a four-year period, at a rate of twenty-five percent (25%) on May 16, 2012 and in 36 equal monthly installments thereafter.

Remarks:

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

Fact

11/12/2014

\*\* Signature of Reporting Person Date

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

 $\ast$  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.