П

# 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									
	0.5								

	Estimated average burden	
	hours per response:	0.5
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1. Nume and Address of Reporting Person			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)					
Sullivan Eric					Director	10% Owner				
(Last) C/O BLUEBIRE 150 SECOND S'	BLUEBIRD BIO, INC.		3. Date of Earliest Transaction (Month/Day/Year) 09/02/2015	X	Officer (give title below) Principal Accounting	Other (specify below) nting Officer				
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable						
(Street) CAMBRIDGE	MA	02141	Li		Form filed by One Report Form filed by More than C Person	•				
(City)	(State)	(Zip)								
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									

#### 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) 1. Title of Security (Instr. 3) 2. Transaction 2A. Deemed 5. Amount of 6. Ownership 7. Nature Transaction Date Execution Date. Securities Form: Direct of Indirect if any (Month/Day/Year) (D) or Indirect (I) (Instr. 4) (Month/Day/Year Code (Instr. Beneficially Beneficial 8) Owned Following Ownership Reported (Instr. 4) Transaction(s) (Instr. 3 and 4) (A) or (D) Price Code v Amount Common Stock 09/02/2015 250 A \$20.7 D Μ 3,468 Common Stock 09/02/2015 Μ \$24.47 166 А 3,634 D Common Stock 09/02/2015 **S**<sup>(1)</sup> 416 D \$130.9405(2) 3.218 D

## 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. Transa Code ( 8)		n of		f Expiration Date erivative ecurities cquired N) or isposed f (D) nstr. 3, 4		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5) y	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 Options (right to buy)	\$20.7	09/02/2015		М			250	(3)	12/02/2023	Common Stock	250	\$0.00	6,500	D	
Stock Option (right to buy)	\$24.47	09/02/2015		М			166	(4)	03/03/2024	Common Stock	166	\$0.00	4,672	D	

#### Explanation of Responses:

1. The sales reported in the Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on January 5, 2015.

2. The range in prices for the transaction reported on this line was \$130.8600 to \$131.0650. The average weighted price was \$130.9405. 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. This option vests over a four-year period, at a rate of twenty-five percent(25%) on November 11, 2014 and in 36 equal monthly installments thereafter.

4. This option vests over a four-year period, at a rate of twenty-five percent(25%) on January 1, 2015 and in 36 equal monthly installments thereafter.

## **Remarks:**

/s/ Jason F. Cole, Attorney-in-Fact 0

<u>09/04/2015</u>

\*\* Signature of Reporting Person 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.