FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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).

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

1. Name and Address of Reporting Person* Sullivan Eric						2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]								(Check	tionship of Reportin all applicable) Director	10% (	on(s) to Issuer  10% Owner  Other (specify
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET					3. Date of Earliest Transaction (Month/Day/Year) 07/17/2015								X	Officer (give title below)  Principal Acc			
F				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	ividual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person			
		Tab	le I -	Non-Deriv	vativ	e Sec	uritie	s Ad	cqui	red, [	Disposed	of, or	Benefic	ially	Owned		
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Yea				ar) 2A. Deemed Execution Date, if any (Month/Day/Year)		e,	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	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	
Common Stock 07/17/2015				15				S		444(1)	D	\$164.5	5824	3,772	D		
Common Stock 07/20/2015				15				S <sup>(2)</sup>		512	D	\$162.2	235(3)	3,260	D		
Common	Stock			07/20/20	15				S <sup>(2)</sup>		156	D	\$163.5	181(4)	3,104	D	
Common	Stock			07/20/20	15				<b>S</b> <sup>(2)</sup>		14	D	\$16	54	3,090	D	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
Derivative Security (Instr. 3)  Date (Month/Day/Year)  (Instr. 3)  Date (Month/Day/Year)  (Instr. 3)  Date (Month/Day/Year)  Execution Date, if any (Month/Day/Year)  (Month/Day/Year)  Security				eaction (Instr.	5. Nu of Deriv Secul Acqu (A) or Dispo of (D) (Instrand 5	ative rities ired osed	Exp	oiration onth/Da	ercisable and Date (Amount of Securities Underlying Derivative Security (Instr. and 4)  Expiration Expiration Title Shares		Deriv Secu (Inst		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

## **Explanation of Responses:**

- 1. Shares were sold to cover tax withholding obligations incurred in connection with the vesting of Restricted Stock Units.
- 2. 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.
- 3. The range in prices for the transaction reported on this line was \$161.66 to \$162.59. The average weighted price was \$162.2350. 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 \$162.75 to \$163.96. The average weighted price was \$163.5181. 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.

## Remarks:

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

07/21/2015

\*\* 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.