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* <u>Sullivan Eric</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								5. Relationship of Reporting Person (Check all applicable) Director				10% Ow	/ner	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET					11/	3. Date of Earliest Transaction (Month/Day/Year) 11/02/2015									X Officer (give title Other (specify below) Principal Accounting Officer					
(Street) CAMBRIDGE MA 02141					_	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(5		(Zip)																	
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/Y					tion	n 2A. Deemed Execution Date,		ate,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an			5. Amo Securit Benefic Owned		unt of ies ially Following	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 11/02/20					015	15		M		250	A	\$20.7	7	3	3,468)			
Common Stock 11/02/				11/02/2	015	15					166	A	\$24.4	.47		3,634)		
Common Stock 11/02/201					015	15		S ⁽¹⁾		416	D	\$77.869)2 ⁽²⁾	3	3,218)			
		T	able I								posed of , converti				ned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		if any	emed tion Date, n/Day/Year)	4. Transa Code (8)			rative rities rired r osed)	6. Date Exerc Expiration Da (Month/Day/N		ate	7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Pri Deriv Secu (Instr	ative rity	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	Amount or Number of Shares	1						
Stock Options (right to buy)	\$20.7	11/02/2015			M			250	(3)	12/02/2023	Common Stock	250	\$0.	.00	6,000		D		
Stock Option (right to buy)	\$24.47	11/02/2015			М			166	(4)	03/03/2024	Common Stock	166	\$0.	.00	4,340		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 \$77.40 to \$78.38. The average weighted price was \$77.8692. 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.

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

** Signature of Reporting Person

11/04/2015

Date

Remarks:

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.