FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPRO	VAL
OMB Number:	3235-0287
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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

Name and Address of Reporting Person* Sullivan Eric					2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									5. Relationship of Reporting Person(s) to Issuer Check all applicable) Director 10% Owner X Officer (give title below)					
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET			07	3. Date of Earliest Transaction (Month/Day/Year) 07/02/2015									below) below) Principal Accounting Officer				:		
(Street) CAMBRIDGE MA 02141			_	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	State)	(Zip)																
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye			on	2A. Deemed Execution Date,		3. 4. Securities Disposed Of Code (Instr. 8)			Acquired		5. Amount of Securities Beneficially Owned Following Reported		Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)				
							Code	v	Amount	(A) or (D)	Price	Transact (Instr. 3 a		ction(s)			(111341.4)		
Common Stock			07/02/20	015				M		250	A	\$20.	20.7		,466		D		
Common Stock		07/02/20)15				M		166	A	\$24.4	1 7 4		,632		D			
Common	Common Stock 07/02/20)15	5			S ⁽¹⁾		416	D	\$163.4679(2)		4,216 ⁽³⁾			D			
			Table								sposed of				wned				
Derivative Conversion Date		3. Transaction Date (Month/Day/Year)	Exect if any	eemed ution Date, :h/Day/Year)	4. Transa Code (8)			vative rities rired r osed)	Expiration D (Month/Day/		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Der Sec (Ins	Price of ivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: y Direct (D) or Indirec (I) (Instr.	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amoun or Numbe of Shares	r					
Stock Options (right to buy)	\$20.7	07/02/2015			М			250	(-	4)	12/02/2023	Commo Stock	250	4	60.00	7,000		D	
Stock Option (right to	\$24.47	07/02/2015			M			166	(5)	03/03/2024	Commo Stock	166	\$	0.00	5,004		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 \$163.1700 to \$163.7900. The average weighted price was \$163.4679. 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. Includes 316 shares acquired under the bluebird bio employee stock purchase plan on January 31, 2015 and 3900 restricted stock units for common stock granted on July 16, 2014 originally reported on the Form 4 filed on July 18, 2014.
- 4. 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.
- 5. 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-07/06/2015 Fact

** 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.