FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Wash

wasiiiigtori, D.C. 20549	OMB APPROVAL		
STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number:	3235-	

l	OMB Number:	3235-0287
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l	hours por rosponso:	0.5

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 (0	Check a	ll appli Directo	icable)		Issuer Owner (specify
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET					3. Date of Earliest Transaction (Month/Day/Year) 07/16/2014											below)) "	below) al Accounting Officer	
(Street) CAMBRIDGE MA 02141 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date			Date	Date (Month/Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr. 5)		ties Acquired (A) d Of (D) (Instr. 3, 4			4 and Secu		es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount		(A) or (D) Price		Trans		tion(s) and 4)		(1113411 4)	
Common Stock ⁽¹⁾					5/2014			A		3,900)	A \$0.		3,900		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. Deem Execution if any (Month/Da	Date,	Date, Transaction Code (Instr.				6. Date E. Expiratio (Month/D	n Date	е	Amount of		str. 3	8. Price of Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
							(A)	(D)	Date Exercisal		Expiration Date	Title	or Nur of	ount nber ires					

Explanation of Responses:

1. Restricted stock units for common stock vest over a two-year period at a rate of 35% on July 16, 2015 and 65% on July 18, 2016.

Remarks:

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

07/18/2014

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.