FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	DVAL				
	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]										ip of Reporti plicable) ctor	ng Pe	10% O	ner
	Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 50 SECOND STREET					3. Date of Earliest Transaction (Month/Day/Year) 09/13/2016										^ belo	Officer (give title below) Principal Accounting Officer			
		EEI			_ 4. If	If Am	endmen	t, Date	of O	riginal	Filed	(Month/D	Day/Ye	ar)		Individual (or Joint/Grou	p Filir	ng (Check A	oplicable
(Street)	IDGE N	ИA	02141															Form filed by One Reporting Person Form filed by More than One Report Person		
(City)	()	State)	(Zip)													Per	SOII			
		Tak	le I - No	n-Deri	ative	e Se	curiti	es A	cqui	ired,	Dis	osed	of, oı	r Ber	neficia	lly Own	ed			
1. Title of Security (Ins		str. 3)	2. Transaction Date (Month/Day/Yea		/Year) Executi		ution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				d Secu Bene Owne	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									(Code	v	Amount		(A) or (D)	Price		rted action(s) 3 and 4)			(Instr. 4)
Common	Stock			09/1	3/2016	6				M		250		A	\$20	.7	5,891		D	
Common	Stock			09/1	3/2016	6				M		166		A	\$24.	47	6,057		D	
Common	Stock			09/1	3/2016	6				S ⁽¹⁾		416		D	\$5	9	5,641		D	
		-	Гable II -									sed of onverti				y Owne	i			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deem Execution if any (Month/Da	Date,	4. Transactio Code (Insti 8)				6. Date Exercisi Expiration Date (Month/Day/Yea		Date		7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)		e s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exer	e rcisable		epiration ate	Title		Amount or Number of Shares					
Stock Options (right to buy)	\$20.7	09/13/2016			M			250		(2)	12	2/02/2023	Comi		250	\$0.00	3,500)	D	
Stock Option (right to	\$24.47	09/13/2016			M			166		(3)	03	3/03/2024	Comi		166	\$0.00	2,680)	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 May 5, 2016.
- 2. 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.
- 3. 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-

09/15/2016

** 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.