FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to						
Section 16. Form 4 or Form 5						
obligations may continue. See						
Instruction 1(b).						

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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 (Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET					3. C	Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE] 3. Date of Earliest Transaction (Month/Day/Year) 03/01/2016									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director I 0% Owner X Officer (give title X Other (specify below) VP, Finance & Treasurer / & Principal Accounting Officer					
(Street) CAMBR (City)	ty) (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-Deriv 1. Title of Security (Instr. 3) 2. Trans Date (Month/			saction	ear)	2A. Deemed Execution Date,		3. Transaction Code (Instr.		4. Secur	4. Securities Acquired (A) Disposed Of (D) (Instr. 3,			5. Amou Securition Benefici Owned I	nt of es ally -ollowing	Forn (D) o	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A) or (D)		се	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Common	Common Stock ⁽¹⁾			03/0	1/2016				A		830	A	\$	0.00	4,048			D		
Common	Stock ⁽¹⁾			03/0	1/2016	6			A		1,46	5 <i>A</i>	\$	0.00	00 5,513 D					
		7	able II -						uired, D s, optior						Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	4. Transaction Code (Instr. 8)		5. Number n of		6. Date Exercisa Expiration Date (Month/Day/Year			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		S (I	B. Price of Derivative Security Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transactic (Instr. 4)	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title	Amou or Numb of Share	oer						
Stock Option (right to buy)	\$50.51	03/01/2016			A		3,300		(2)	0	3/01/2026	Common Stock	3,30	00	\$0.00	3,300)	D		
Stock Option (right to	\$50.51	03/01/2016			A		6,400		(2)	0	3/01/2026	Commo	6,40	00	\$0.00	6,400)	D		

Explanation of Responses:

- $1. \ Restricted \ stock \ units for \ common \ stock \ vest \ over \ a \ four-year \ period \ at \ a \ rate \ of \ 25\% \ on \ 01/04/2017, \ 25\% \ on \ 01/04/2018, \ 25\% \ on \ 01/04/2019, \ and \ 25\% \ on \ 01/04/2020.$
- 2. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2017 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Jason F. Cole, Attorney-in-03/03/2016 **Fact**

** Signature of Reporting Person

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.