FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSE

l	OMB APPRO	IVAL
	OMB Number:	3235-0287
l	Estimated average burd	en
l	hours per response:	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

								-												
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 Officer (give title Other (specify														
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET				10/	3. Date of Earliest Transaction (Month/Day/Year) 10/03/2016										Principal Accounting Officer					
(Street) CAMBRIDGE MA 02141				_   4. i	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)	(\$	State)	(Zip)																	
		Tab	le I - I	Non-Deri	vative	Sec	uriti	es Ad	cquire	ed, D	isposed (	of, or B	enefici	ally (	Owne	t				
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/N			-	Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Disposed Of			5)	5. Amount of Securities Beneficially Owned Followin Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership						
						Code	v	Amount	(A) or (D)	Price	Trans		action(s) 3 and 4)			(Instr. 4)				
Common Stock 10/03/20			016	16		M		250	A	\$20.7		5	5,891		D					
Common Stock 10/03/20			016	6		M		166	A	\$24.4	524.47		5,057		D					
Common Stock 10/03/202				016	16		S <sup>(1)</sup>		416	D	\$66.99	\$66.9968 <sup>(2)</sup>		5,641		D				
		٦	Table I								sposed of , converti				wned					
1. Title of Derivative Security (Instr. 3)	Conversion Date Exe or Exercise (Month/Day/Year) if ar		if any	emed tion Date, n/Day/Year)		ransaction ode (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Exerc tion Da l/Day/\		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		Der Sec (Ins	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y C F O (I	LO. Dwnership Form: Direct (D) or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amoun or Numbe of Shares							
Stock Options (right to buy)	\$20.7	10/03/2016			M			250	(3)	)	12/02/2023	Common Stock	250	\$	60.00	3,250		D		
Stock Option (right to buy)	\$24.47	10/03/2016			M			166	(4)	)	03/03/2024	Common Stock	166	\$	60.00	2,514		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. The range in prices for the transaction reported on this line was \$66.62 to \$67.30. The average weighted price was \$66.9968. 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.

## Remarks:

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

10/05/2016

**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.