FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	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

1. Name and Address of Reporting Person* <u>Sullivan Eric</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									all appli Direct	cable) or	g Person(s) to Is		wner	
	(F JEBIRD BI OND STRI	O, INC.	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 12/02/2015									Officer (give title below) Principal Acco		Other (s below) ounting Officer		· · ·	
(Street) CAMBRIDGE MA 02141						4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S		(Zip)																	
		Tab	le I - N	on-Deri	vative	Sec	uriti	es Ac	quire	d, Di	isposed (of, or Be	enefici	ally (Owne	t				
Date				2. Transac Date (Month/Da		Execution Date, y/Year) if any		Execution Date,				ties Acquired (A) or I Of (D) (Instr. 3, 4 a		Benefic Owned		es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price			ed ction(s) 3 and 4)			(Instr. 4)	
Common Stock				12/02/	2015				M		250	A	\$20	.7	3	3,468		D		
Common	Stock			12/02/	2015				M		166	A	\$24.	47	3	3,634		D		
Common Stock 12/02/2				2015				S ⁽¹⁾		416	D	\$81.13	33 ⁽²⁾	3,218			D			
		Т	able II								posed of converti				wned					
1. Title of Derivative Conversion or Exercise Price of Derivative Security 1. Title of Conversion or Exercise Price of Derivative Security 1. Title of Conversion Date (Month/Day/Year) 1. Transaction Date Execution Date (Month/Day/Year) 1. Transaction Date (Month/Day/Year) 2. Conversion Date (Month/Day/Year) 3. Transaction Date (Month/Day/Year) 3. Transaction Date (Month/Day/Year)		on Date,	Date, Transact Code (In:		tion of		6. Date Exercisa Expiration Date (Month/Day/Year		e Amount of		f s g Security	8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares							
Stock Options (right to buy)	\$20.7	12/02/2015			M			250	(3)		12/02/2023	Common Stock	250	S	00.00	5,750		D		
Stock Option (right to	\$24.47	12/02/2015			M			166	(4)		03/03/2024	Common Stock	166		00.00	4,174		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 \$81.00 to \$81.25. The average weighted price was \$81.1330. 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-

12/04/2015

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.