FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

ligion, D.C. 20549	OMB APPROVAL
l:	

OMB Number:	3235-0287							
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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* Gregory Philip D						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									all appl Direct	icable)	g Pers	Person(s) to Issuer 10% Owner Other (specify		
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET						3. Date of Earliest Transaction (Month/Day/Year) 11/05/2018									X Officer (give title Other (specify below) Chief Scientific Officer					
(Street) CAMBR (City)	_ 4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									ndividual or Joint/Group Filing (Check Applicable X Form filed by One Reporting Person Form filed by More than One Reporting Person									
			le I -					es A		ed, [Disposed	-		cially				1		
1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/Y						Execution Dat		<i>'</i>	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			Benef Owne		ties cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
					Code	Code V Amo		(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)							
Common Stock				11/05/20)18				М		600	A	\$50	.51	33	1,971		D		
Common Stock			11/05/20	11/05/2018				M		700	A	\$75	5.6	32	2,671		D			
Common Stock 11/05				11/05/20)18	18					600	D	\$136	.49(2)	32	2,071		D		
Common	Common Stock 11/05/201					3			S ⁽¹⁾		948	D	\$137.6985 ⁽³⁾		31,123			D		
Common Stock 11/05/201)18	8			S ⁽¹⁾		252	D	\$138.2735 ⁽⁴⁾		30,871			D		
		Т	able						•	,	sposed of	,		•	wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transa Code (8)				Expira	e Exer ation D h/Day/		7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		De Se (In:	Price of rivative curity str. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly Di or	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
						v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amou or Numb of Share	per						
Stock Option	\$ 50.51	11/05/2018			M			600		5)	03/01/2026	Commo	on GO		¢0 00	14 600		D		

Explanation of Responses:

\$50.51

\$75.6

11/05/2018

11/05/2018

- 1. The sales reported in this Form 4 were effected pursuant to a 10b5-1 trading plan adopted by the reporting person on July 2, 2018.
- 2. The range in prices for the transaction reported on this line was \$135.91 to \$136.88. The average weighted price was \$136.49. 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.

600

700

(5)

(6)

- 3. The range in prices for the transaction reported on this line was \$137.16 to \$138.15. The average weighted price was \$137.6985. 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.
- 4. The range in prices for the transaction reported on this line was \$138.21 to \$138.72. The average weighted price was \$138.2735. 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.
- 5. 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.

M

M

6. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2018 and in 36 equal monthly installments thereafter.

Remarks:

(right to buv) Stock Option

(right to buy)

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

11/07/2018

Fact

Commor

600

700

\$0.00

\$0.00

14,600

31,300

D

D

03/01/2026

02/01/2027

** 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.