FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFI	CIAL OWNE	RSHIP

l	OMB APPROVAL								
	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

1. Name and Address of Reporting Person* <u>Gregory Philip D</u>					2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									all applic	cable)		Issuer Owner er (specify	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET						3. Date of Earliest Transaction (Month/Day/Year) 03/01/2018									below)		belo ntific Office	w)
(Street) CAMBRIDGE MA 02142				!	_ 4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	ridual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(S	-	(Zip)	Non Dori		. 500		00 A	oguir	ad D	ionocod (of or F	Popofic	م المام	Ownoo			
1. Title of Security (Instr. 3) 2. Transa Date			2. Transaction	on	n 2A. Deemed Execution Date,		ate,	3. Transaction Code (Instr. 8) Acquired, Disposed of, or Bene 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a)			(A) or	d 5) 5. Am Secur Bene Owne		unt of ies ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect		
									Code	v	Amount	(A) or (D)	Price		Reported Transaction (Instr. 3 and			(11150.4)
Common Stock 03/01/2				03/01/20)18	3			M		1,250	A	\$50.51		32,522		D	
Common Stock 0				03/01/20)18	8			S ⁽¹⁾		200	D	\$198.65 ⁽²⁾		32,322		D	
Common Stock			03/01/20)18	18					1,576	D	\$199.8	\$199.8786 ⁽³⁾		,746	D		
Common Stock 03/			03/01/20)18	.8			S ⁽¹⁾		400	D	\$200.85(4)		30,346		D		
Common Stock 03/0			03/01/20)18	18			S ⁽¹⁾		74	D	\$201.575		30,272		D		
		Т	able								sposed of				wned			
Derivative Conversion Date Execurity or Exercise (Month/Day/Year) if any		eemed 4. ution Date, Trans		5. Number of ode (Instr. Derivative		umber vative urities uired or oosed o) cr. 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. De Se (In	Price of rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Benefici Owners ect (Instr. 4)		
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amo or Num of Shar	ber				
Stock Option (right to buy)	\$50.51	03/01/2018			M			1,250	(5)	03/01/2026	Commo		50	\$0.00	18,250	D	

Explanation of Responses:

- 1. This sales reported in the Form 4 were effected pursuant to a 10b5-1 trading plan adopted by the reporting person on March 17, 2017.
- 2. The range in prices for the transaction reported on this line was \$198.20 to \$199.10. The average weighted price was \$198.6500. 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. The range in prices for the transaction reported on this line was \$199.50 to \$200.40. The average weighted price was \$199.8786. 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 \$200.55 to \$201.15. The average weighted price was \$200.85. 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.

Remarks:

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

03/05/2018

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.