FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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

Name and Address of Reporting Person* Gregory Philip D						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									all application of the contraction of the contracti	onship of Reporting all applicable) Director Officer (give title below)		g Person(s) to Issuer 10% Owner Other (specify below) utific Officer		
	Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET							3. Date of Earliest Transaction (Month/Day/Year) 12/01/2017									ntific Of			
(Street) CAMBR (City)	AMBRIDGE MA 02142						4. If Amendment, Date of Original Filed (Month/Day/Year)									dividual or Joint/Group Filing (Check Applicable 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. Transaction Date (Month/Day/)						2A. De Execut if any	emed		3. Transa Code (ction	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			5. Am		unt of	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	irect	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						(Month/Da		Year)	8) Code V		Amount (A) or (D)		Price		Owned Following Reported Transaction(s) (Instr. 3 and 4)					
Common Stock 12/)17	17			M		1,250	A	\$50	.51	28	,734	D			
Common Stock 12/01)17	17					950	D	\$171.8	147(2)	27	,784	D			
Common Stock 12/01/20)17	7			S ⁽¹⁾		900	D	\$172.8	411(3)	26	6,884				
Common Stock 1:				12/01/20	17				S ⁽¹⁾		400	D	\$173.5	575 ⁽⁴⁾	26,484		D			
		T	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)	Execu if any	eemed ution Date, th/Day/Year)	4. Transa Code (8)				Expir	te Exerc ation D th/Day/		7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		De Se (In	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Owners Form: Direct (or Indir (I) (Inst	nership rm:	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	cisable	Expiration Date	Title	Amou or Numl of Share	ber						
Stock Option (right to buy)	\$50.51	12/01/2017			M			1,250	((5)	03/01/2026	Commo		50	\$0.00	22,000		D		

Explanation of Responses:

- $1.\ The\ sales\ reported\ in\ this\ Form\ 4\ were\ effected\ pursuant\ to\ a\ Rule\ 10b5-1\ trading\ plan\ adopted\ by\ the\ reporting\ person\ on\ March\ 17,\ 2017.$
- 2. The range in prices for the transaction reported on this line was \$171.30 to \$172.20. The average weighted price was \$171.8147. 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 \$172.35 to \$173.30. The average weighted price was \$172.8411. 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 \$173.3500 to \$173.7750. The average weighted price was \$173.5750. 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-12/05/2017 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.