FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	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

1. Name and Address of Reporting Person* Gregory Philip D (Last) (First) (Middle) C/O BLUEBIRD BIO, INC.						Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE] Date of Earliest Transaction (Month/Day/Year) 02/05/2019									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) Chief Scientific Officer				wner
(Street) CAMBRIDGE MA 02142 (City) (State) (Zip)						f Amen	dmen	t, Dat	e of Ori	ginal F	iled (Month/E		6. Indiv Line) X	,					
(- 9)			,	Non Doris	vative	. 500	uriti	ος Λ	cauir	od F)icposed	of or E	Ponofic	ially (Ownor	۸			
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yo						2A. Deemed Execution Date,			3. Transaction Code (Instr. 8)		4. Securities Disposed Of	(A) or	5. Amo Securir Benefic		unt of ies ially Following	Form (D) o	n: Direct r Indirect estr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code	v	Amount	nount (A) or Price			Transaction(s) (Instr. 3 and 4)				(111501.4)			
Common Stock 02/05/201						9			M		600	A	\$50.	\$50.51		4,192		D	
Common Stock 02/05/201						.9			M		700	A	\$75	\$75.6		4,892		D	
Common Stock 02/05/201						9			S ⁽¹⁾		600	D	\$136.5133 ⁽²⁾		34	34,292		D	
Common Stock 02/05/201						9			S ⁽¹⁾		500	D	\$137.718 ⁽³⁾		33	33,792		D	
Common Stock 02/05/201						9			S ⁽¹⁾		700	D	\$139.4514 ⁽⁴⁾		33	33,092		D	
		Т	able	II - Deriva											wned		,		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	emed 4. ion Date, Trans		5. Calls, warrar 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		rative rities iired r osed)	6. Dat Expira		cisable and ate	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. F Der Sec (Ins	Price of rivative curity str. 5)	derivative Securities	Ownersh Form: Direct (D or Indire (I) (Instr.	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	or Number of Shares	er					
Stock Option (right to buy)	\$50.51	02/05/2019			M			600	(:	5)	03/01/2026	Commo	ⁿ 600		00.0	12,800		D	

Explanation of Responses:

\$75.6

- 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 \$136.30 to \$136.98. The average weighted price was \$136.5133. 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.

700

(6)

- 3. The range in prices for the transaction reported on this line was \$137.55 to \$138.37. The average weighted price was \$137.718. 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 \$138.89 to \$139.68. The average weighted price was \$139.4514. 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.
- 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:

Stock Option

(right to buy)

> /s/ Jason F. Cole, Attorney-in-02/07/2019 **Fact**

** Signature of Reporting Person

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\$0.00

02/01/2027

Date

29,200

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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).

02/05/2019

** 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.