FORM 4

obligations may continue. See

Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHAN	IGES IN BENEFICIAL	OWNERSHIP

OMB Number: Estimated average burden hours per response: 0.5

OMB APPROVAL

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						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								(Check	ionship of Reporting all applicable) Director Officer (give title		g Person(s) to Issuer 10% Owner Other (specify	
	ast) (First) (Middle) /O BLUEBIRD BIO, INC. D BINNEY STREET					3. Date of Earliest Transaction (Month/Day/Year) 01/05/2018								X	belov	N) .	below ntific Officer	
(Street) CAMBRIDGE MA 02142 (City) (State) (Zip)			_ 4. I _	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indivi Line) X	-7					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye			Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		e, 1	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Dis Of (D) (Instr. 3, 4 and 5)			Secu Bene Own		ficially ed Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
							[Code	v	Amount (A) or (D) Price		Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common Stock 01/05/20				01/05/20	18	8		\top	S		1,489(1)	D	\$173.25	569 ⁽²⁾	23,995		D	
Common Stock 01/05/2			01/05/20	18	8			S		223(1)	D	\$174.17	74.1705 ⁽³⁾		23,772	D		
		Та	ıble	II - Deriva (e.g., p							posed of, , convertil				ned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	Exec if an	3A. Deemed Execution Date, if any (Month/Day/Year)		action (Instr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration			7. Title Amou Secur Under Deriva Secur and 4	nt of ities lying ative ity (Instr. 3			9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Dat	te ercisable	Expiration e Date	Title	Number of Shares					

Explanation of Responses:

- 1. Shares were sold to cover tax withholding obligations incurred in connection with the vesting of Restricted Stock Units.
- 2. The range in prices for the transaction reported on this line was \$172.85 to \$173.80. The average weighted price was \$173.2569. 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 \$173.85 to \$174.35. The average weighted price was \$174.1705. 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.

Remarks:

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

Fact

** Signature of Reporting Person

Date

01/09/2018

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.