Gregory Philip D Form 4 August 03, 2017

FORM 4

OMB APPROVAL

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

January 31, Expires: 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

Form 4 or Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Addr Gregory Philip	•	ng Person *	2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(Check an applicable)		
C/O BLUEBIRD BIO, INC., 60 BINNEY STREET (Street)			(Month/Day/Year) 08/01/2017	Director 10% Owner Officer (give title Other (specify below)		
			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
CAMBRIDGE	, MA 02142		Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tabl	e I - Non-I	Derivative	Secu	rities Acqui	red, Disposed of,	or Beneficially	Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securities Acquired (A) Transactiom Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)			Beneficially For Owned Dir	Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Common Stock	08/01/2017		M	750	A	\$ 50.51	32,234	D	
Common Stock	08/01/2017		S(1)	900	D	\$ 92.8281 (2)	31,334	D	
Common Stock	08/01/2017		S(1)	600	D	\$ 93.4583 (3)	30,734	D	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)

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required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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. Transactic Code (Instr. 8)	5. Number proof Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Pri Deriv Secur (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option (right to buy)	\$ 50.51	08/01/2017		M	750	<u>(4)</u>	03/01/2026	Common Stock	750	\$

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Gregory Philip D

C/O BLUEBIRD BIO, INC. 60 BINNEY STREET CAMBRIDGE, MA 02142

Chief Scientific Officer

Signatures

/s/ Jason F. Cole, Attorney-in-Fact 08/03/2017

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- (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.
- The range in prices for the transaction reported on this line was \$92.20 to \$93.15. The average weighted price was \$92.8281. 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)

Reporting Owners 2

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The range in prices for the transaction reported on this line was \$93.25 to \$94.50. The average weighted price was \$93.4583. 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) 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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.