Gregory Philip D Form 4 October 04, 2017

FORM 4

OMB APPROVAL

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

OMB Number: 3235-0287

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Expires: January 31, 2005
Estimated average

Form 4 or Form 5 obligations may continue

SECURITIES

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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 ponse... 0.5

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Gregory Philip D	2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]	5. Relationship of Reporting Person(s) to Issuer		
(Last) (First) (Middle)	3. Date of Earliest Transaction	(Check all applicable)		
C/O BLUEBIRD BIO, INC., 60 BINNEY STREET	(Month/Day/Year) 10/02/2017	Director 10% Owner _X_ Officer (give title Other (specify below) Chief Scientific Officer		
(Street)	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)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned						Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securities Acquired (A) sactiomr Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock	10/02/2017		Code V M	Amount 1,250	(D)	Price \$ 50.51	30,734	D	
Common Stock	10/02/2017		S <u>(1)</u>	2,200	D	\$ 131.8159 (2)	28,534	D	
Common Stock	10/02/2017		S(1)	50	D	\$ 132.15	28,484	D	

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

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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)	Transaction Derivative Code Securities		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option (right to buy)	\$ 50.51	10/02/2017		M	1,250	(3)	03/01/2026	Common Stock	1,250	

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

**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 \$131.05 to \$132.00. The average weighted price was \$131.8159. 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) 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.

Reporting Owners 2

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