SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL OMB Number: 3235-0287

Estimated average burden hours per response: 0.5

1. Name and Address of Reporting Person* <u>Gregory Philip D</u>			2. Issuer Name and Ticker or Trading Symbol <u>bluebird bio, Inc.</u> [BLUE]		tionship of Reporting Person(s) to Issuer all applicable) Director 10% Owner		
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC.			3. Date of Earliest Transaction (Month/Day/Year) 07/06/2017	x	Officer (give title below) Chief Scientific	Other (specify below)	
60 BINNEY STREET			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	ividual or Joint/Group Filing (Check Applicable		
(Street) CAMBRIDGE MA 02142		02142			Form filed by One Rep Form filed by More tha Person	0	
(City)	(State)	(Zip)					

Table I - Non-Derivative Securities Acquired, 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. Transa Code (8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)				6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D) Price		Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	07/06/2017		М		1,250	A	\$50.51	33,734	D	
Common Stock	07/06/2017		S ⁽¹⁾		2,250	D	\$103.8292 ⁽²⁾	31,484	D	

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. Transa Code (8)		of Derivative Securities Acquired (A) or		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v			Date Exercisable	Expiration Date	Amount or Number of Title Shares			Transaction(s) (Instr. 4)		
Stock Option (right to buy)	\$50.51	07/06/2017		М			1,250	(3)	03/01/2026	Common Stock	1,250	\$0.00	28,250	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 \$103.40 to \$104.15. The average weighted price was \$103.8292. 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.

Remarks:

/s/ Jason F. Cole, Attorney-in-07/10/2017 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.