

Walsh Jeffrey T.  
Form 4  
December 13, 2017

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

OMB APPROVAL

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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).

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

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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Walsh Jeffrey T.

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)  
C/O BLUEBIRD BIO, INC., 60  
BINNEY STREET

3. Date of Earliest Transaction  
(Month/Day/Year)  
12/11/2017

\_\_\_\_ Director  
 Officer (give title below) \_\_\_\_ 10% Owner  
\_\_\_\_ Other (specify below)  
Chief Financial / and Strategy Officer

(Street)  
CAMBRIDGE, MA 02142

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
\_\_\_\_ Form filed by More than One Reporting Person

(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. Transaction Code (Instr. 8)	4. Securities Acquired (A) or 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)
			Code	V	Amount or Price		
Common Stock	12/11/2017		M		9,900 A \$ 24.47	37,205	D
Common Stock	12/11/2017		S <sup>(1)</sup>		1,299 D \$ 210.2482	35,906	D
Common Stock	12/11/2017		S <sup>(1)</sup>		101 D \$ 211.0594	35,805	D
Common Stock	12/11/2017		S <sup>(1)</sup>		1,200 D \$ 212.7004	34,605	D

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Common Stock	12/11/2017	S <sup>(1)</sup>	520	D	\$ 213.6462 (5)	34,085	D
Common Stock	12/11/2017	S <sup>(1)</sup>	380	D	\$ 214.5842 (6)	33,705	D
Common Stock	12/11/2017	S <sup>(1)</sup>	2,550	D	\$ 217.3318 (7)	31,155	D
Common Stock	12/11/2017	S <sup>(1)</sup>	950	D	\$ 218.0895 (8)	30,205	D
Common Stock	12/11/2017	S <sup>(1)</sup>	800	D	\$ 219.4855 (9)	29,405	D
Common Stock	12/11/2017	S <sup>(1)</sup>	680	D	\$ 220.5206 (10)	28,725	D
Common Stock	12/11/2017	S <sup>(1)</sup>	1,420	D	\$ 221.5169 (11)	27,305	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. Transaction Code (Instr. 8)	5. Number of 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. Derivative Securities (Instr. 3 and 4)	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 24.47	12/11/2017		M	9,900	(12)	03/03/2024	Common Stock	9,900



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- (12) This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 1, 2015 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.

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