

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

(Street)

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

CAMBRIDGE, MA 02142

(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	(D)	Price
Common Stock	12/11/2017		M		9,900	A	\$ 24.47
							37,205
Common Stock	12/11/2017		S <sup>(1)</sup>		1,299	D	\$ 210.2482
							35,906
Common Stock	12/11/2017		S <sup>(1)</sup>		101	D	\$ 211.0594
							35,805
Common Stock	12/11/2017		S <sup>(1)</sup>		1,200	D	\$ 212.7004
							34,605

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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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(9-02)

**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	

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Walsh Jeffrey T. C/O BLUEBIRD BIO, INC. 60 BINNEY STREET CAMBRIDGE, MA 02142			Chief Financial	and Strategy Officer

## Signatures

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

12/13/2017

\*\*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 December 23, 2016.
- The range of prices for the transaction reported on this line was \$210.0500 to \$210.8750. The average weighted price was \$210.2482.
- (2) The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- The range of prices for the transaction reported on this line was \$211.0500 to \$212.0000. The average weighted price was \$211.0594.
- (3) The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- The range of prices for the transaction reported on this line was \$212.1000 to \$213.0000. The average weighted price was \$212.7004.
- (4) The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- The range of prices for the transaction reported on this line was \$213.1500 to \$214.0000. The average weighted price was \$213.6462.
- (5) The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- The range of prices for the transaction reported on this line was \$214.4000 to \$215.1000. The average weighted price was \$214.5842.
- (6) The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- The range of prices for the transaction reported on this line was \$217.0000 to \$217.9500. The average weighted price was \$217.3318.
- (7) The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- The range of prices for the transaction reported on this line was \$218.0000 to \$218.2500. The average weighted price was \$218.0895.
- (8) The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- The range of prices for the transaction reported on this line was \$219.0000 to \$219.7000. The average weighted price was \$219.4855.
- (9) The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- The range of prices for the transaction reported on this line was \$220.1500 to \$221.0500. The average weighted price was \$220.5206.
- (10) The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- The range of prices for the transaction reported on this line was \$221.3000 to \$221.6750. The average weighted price was \$221.5169.
- (11) The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

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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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