SEC Form 4	
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(City)

## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

(State)

(Zip)

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-0287									
Estimated average burd	en									
hours per response:	0.5									

Person

Instruction 1(b).			pursuant to Section 16(a) of the Securities Exchange Act of 1934		Liburs per respo	Jilse. 0
			or Section 30(h) of the Investment Company Act of 1940			
1. Name and Address of Reporting Person <sup>*</sup> Walsh Jeffrey T. (Last) (First) (Middle) C/O BLUEBIRD BIO, INC.		1*	2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>bluebird bio, Inc.</u> [ BLUE ]	5. Relationship of F (Check all applicate Director X Officer (gi	ole)	10% Owner Other (specify
	D BIO, INC.		3. Date of Earliest Transaction (Month/Day/Year) 12/11/2017	below)	ncial / and Str	below) ategy Officer
(Street) CAMBRIDGE	MA	02142	4. If Amendment, Date of Original Filed (Month/Day/Year)		nt/Group Filing ( d by One Report d by More than C	ting Person

## Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

Table 1 - Non-Derivative Securities Acquired, Disposed of, of Deriencially 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)		5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(insu. 4)		
Common Stock	12/11/2017		М		9,900	A	\$24.47	37,205	D			
Common Stock	12/11/2017		<b>S</b> <sup>(1)</sup>		1,299	D	\$210.2482 <sup>(2)</sup>	35,906	D			
Common Stock	12/11/2017		<b>S</b> <sup>(1)</sup>		101	D	\$211.0594 <sup>(3)</sup>	35,805	D			
Common Stock	12/11/2017		<b>S</b> <sup>(1)</sup>		1,200	D	\$212.7004 <sup>(4)</sup>	34,605	D			
Common Stock	12/11/2017		<b>S</b> <sup>(1)</sup>		520	D	\$213.6462 <sup>(5)</sup>	34,085	D			
Common Stock	12/11/2017		<b>S</b> <sup>(1)</sup>		380	D	\$214.5842 <sup>(6)</sup>	33,705	D			
Common Stock	12/11/2017		S <sup>(1)</sup>		2,550	D	\$217.3318 <sup>(7)</sup>	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		<b>S</b> <sup>(1)</sup>		800	D	\$219.4855 <sup>(9)</sup>	29,405	D			
Common Stock	12/11/2017		<b>S</b> <sup>(1)</sup>		680	D	\$220.5206(10)	28,725	D			
Common Stock	12/11/2017		<b>S</b> <sup>(1)</sup>		1,420	D	\$221.5169(11)	27,305	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 Deri Sec Acq (A) ( Disp of (I	oosed D) tr. 3, 4	Expiration Date (Month/Day/Year)		Expiration Date Amount of		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 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		М			9,900	(12)	03/03/2024	Common Stock	9,900	\$0.00	32,271	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 December 23, 2016.

2. The range of prices for the transaction reported on this line was \$210.0500 to \$210.8750. The average weighted price was \$210.2482. 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.

3. The range of prices for the transaction reported on this line was \$211.0500 to \$212.0000. The average weighted price was \$211.0594. 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.

4. The range of prices for the transaction reported on this line was \$212.1000 to \$213.0000. The average weighted price was \$212.7004. 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.

5. The range of prices for the transaction reported on this line was \$213.1500 to \$214.0000. The average weighted price was \$213.6462. 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.

6. The range of prices for the transaction reported on this line was \$214.4000 to \$215.1000. The average weighted price was \$214.5842. 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.

7. The range of prices for the transaction reported on this line was \$217.0000 to \$217.9500. The average weighted price was \$217.3318. 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.

8. The range of prices for the transaction reported on this line was \$218.0000 to \$218.2500. The average weighted price was \$218.0895. 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.

9. The range of prices for the transaction reported on this line was \$219.0000 to \$219.7000. The average weighted price was \$219.4855. 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.

10. The range of prices for the transaction reported on this line was \$220.1500 to \$221.0500. The average weighted price was \$220.5206. 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.

11. The range of prices for the transaction reported on this line was \$221.3000 to \$221.6750. The average weighted price was \$221.5169. 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.

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.

**Remarks:** 

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

**Fact** 

12/13/2017

\*\* 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.