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 bur	rden									
hours per response:	0.5									

1. Name and Address of Reporting Person* <u>Walsh Jeffrey T.</u>			2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>bluebird bio, Inc.</u> [ BLUE ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 09/11/2017	Chief Financial / and Strategy Officer
(Street) CAMBRIDGE (City)	MA 02142 (State) (Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person

#### 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)			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)		(1130.4)	
Common Stock	09/11/2017		М		4,900	A	\$5.5004	32,205	D		
Common Stock	09/11/2017		<b>S</b> <sup>(1)</sup>		3,482	D	<b>\$125.4409</b> <sup>(2)</sup>	28,723	D		
Common Stock	09/11/2017		S <sup>(1)</sup>		1,418	D	\$126.4313 <sup>(3)</sup>	27,305	D		

#### Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	(e.g., puts, cans, 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)				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 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)	\$5.5004	09/11/2017		М			4,900	(4)	01/16/2023	Common Stock	4,900	\$0.00	67,485	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 \$125.00 to \$125.8750. The average weighted price was \$125.4409. 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 \$126.05 to \$126.70. The average weighted price was \$126.4313. 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. This option to purchase shares of our common stock granted on January 16, 2013 with performance-based vesting criteria that were met as of April 1, 2013. The shares underlying these options vested as follows: 25% vested on April 1, 2014, with the remainder of the shares vesting in equal monthly installments over the following three years.

Remarks:

### <u>/s/ Jason F. Cole, Attorney-in-</u>

Fact

09/13/2017

\*\* 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.