FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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hours per response:	0.5							

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

Name and Address of Reporting Person*  Walsh Jeffrey T.						2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner							
(Last)	(Fi	rst) (	Midd	lle)		3. Date of Earliest Transaction (Month/Day/Year) 04/10/2017								X		er (give title	X		(specify		
C/O BLUEBIRD BIO, INC.															Chief Financial / and Strategy Officer						
150 SECOND STREET					<u> </u>									-							
						If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)							
(Street)														X Form filed by One Reporting Person							
CAMBRIDGE MA 02141					-										Form filed by More than One Reporting Person						
(City)	(St	tate) (	Zip)																		
		Tab	le I	- Non-Deri	vative	e Sec	curit	ties A	cquire	d, D	Disposed	of, or E	Benefic	ially (	Own	ed					
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Yea					ear) i	A. De Execut fany Month	ion D	ate,	3. Transacti Code (In: 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			nd 5) Secur Benef Owne		ficially ed	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
Common Stock 04/10/2017									M		1,250	A	\$5.50	004		28,555	D				
Common Stock 04/10/20					17	7			S <sup>(1)</sup>		1,250	D	\$87.38	802(2)		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)	Exe if ar	Deemed cution Date, ny nth/Day/Year)		5. Number of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3 4 and 5		rivative curities quired or sposed (D) str. 3,	i i		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Pr of Deriv Secu (Inst	ative	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	m: ect (D) ndirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amoun or Numbe of Shares								
Stock Option (right to buy)	\$5.5004	04/10/2017			М			1,250	(3)		01/16/2023	Common Stock	1,250	\$0	.00	90,635		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 \$87.05 to \$87.90. The average weighted price was \$87.3802. 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. This option to purchase shares of our common stock granted on January 16, 2013 with performance-based vesting criteria that were met as of January 1, 2013. The shares underlying these options vested as follows: 25% vested on January 1, 2014, with the remainder of the shares vesting in equal monthly installments over the following three years.

## Remarks:

/s/ Jason F. Cole, Attorney-in-Fact 04/12/2017

\*\* 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.

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