FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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Name and Address of Reporting Person* Walsh Jeffrey T.						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last)	(Fi JEBIRD BI	rst) (O, INC.		3. Date of Earliest Transaction (Month/Day/Year) 05/10/2017								X Officer (give title X Other (specify below) Chief Financial / and Strategy Officer						
60 BINNEY STREET					4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable				
(Street)	LIDGE M	A 02142												X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(S	tate) (Zip)															
		Tab	le I	- Non-Deriv	vative	Sec	curit	ties A	cquire	d, C	Disposed	of, or E	Benefici	ally Own	ed			
			2. Transaction Date (Month/Day/Year		2A. Deemed Execution Da if any (Month/Day/Y		ate,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			d 5) Secu Bene Own		6. Ownershi Form: Direc (D) or Indirect (I)	of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price	Repo Tran	owing orted saction(s) r. 3 and 4)	(Instr. 4)	(Instr. 4)	
Common	Stock		05/10/201	17				M		1,250	Α	\$5.50	04	28,555	D			
Common Stock				05/10/201	17				S ⁽¹⁾		1,247	D	\$88.77	15(2)	27,308	D		
Common Stock			05/10/201	17				S ⁽¹⁾		3	D	\$89.43	33(3)	27,305	D			
		Ta	able	II - Deriva (e.g., p							posed of , converti				I			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution Date, if any (Month/Day/Year)			le (Instr. of De Se Ac (A Di of (In		mber rivative curities quired or posed D) str. 3, nd 5)	6. Date Exerc Expiration Day (Month/Day/)		ate	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((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares					
Stock Option (right to buy)	\$5.5004	05/10/2017			М			1,250	(4)		01/16/2023	Common Stock	1,250	\$0.00	89,385	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 \$88.15 to \$88.95. The average weighted price was \$88.7715. 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 \$89.40 to \$89.45. The average weighted price was \$89.4333. 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 May 1, 2013. The shares underlying these options vested as follows: 25% vested on May 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-05/12/2017

Fact

** 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.