FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Washington, D.C. 20040

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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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 and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									hip of Reporting pplicable) rector ficer (give title		Person(s) to Issuer 10% Owner Other (specify	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET							Earli)15	iest Trar	saction	(Mont	th/Day/Year)		X	below)			респу		
(Street) CAMBRIDGE MA 02141 (City) (State) (Zip)					_ 4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									lividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tab	le I - N	Non-Der	ivativ	e Sec	urit	ties Ac	cquire	ed, D	isposed o	of, or B	eneficia	lly (Owned				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day)				Exec if any	A. Deemed xecution Date, any Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			Benefic Owned		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common Stock 11/10/20					2015	15			M		11,000	A	\$2.09	2.09		11,000		D	
Common Stock 11/10				11/10/2	2015	15			S ⁽¹⁾		11,000	D	\$74.604	\$74.6045 ⁽²⁾		0		D	
		7	Table I								posed of, , converti			y Ov	wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year	if any	emed ion Date, /Day/Year)	4. Transa Code (8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amoun of Securities Underlying Derivative Security (Instr. 3 and 4)		De Se	Price of crivative curity str. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Owners Form: Direct (or Indir (I) (Inst	Ownership	Beneficial Ownership ct (Instr. 4)
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amount or Number of Shares						
Stock Option (right to	\$2.09	11/10/2015			M			11,000	(3	3)	07/13/2021	Common	n 11,000		\$0.00	18,513	3	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 September 26, 2014.
- 2. The range of prices for the transaction reported on this line was \$73.8650 to \$74.7900. The average weighted price was \$74.6045. 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 vests over a four-year period, at a rate of twenty-five percent (25%) on May 16, 2012 and in 36 equal monthly installments thereafter.

Remarks:

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

11/12/2015

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.