FORM 4

Section 16. Form 4 or Form 5 obligations may continue. See

Instruction 1(b)

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	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
Section 10. Form 4 or Form 5	

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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

Walsh Jeffrey T.						bluebird bio, Inc. [BLUE]									k all applic Directo	cable) r	g i cis	10% Ov	vner
(Last) (First) (Middle C/O BLUEBIRD BIO, INC. 150 SECOND STREET			e)	3. Date of Earliest Transaction (Month/Day/Year) 03/10/2015									X	below)	Officer (give title below) Chief Operating Officer Other (specify below)				
(Street)	IDGE N	ЛΑ	02141	L	_ 4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(:	State)	(Zip)	Non Dor	ivativ	0 500	it	tios A	cauir	od D	Disposed 4	of or E	Ponofi	oially.	Ownod				
1. Title of Security (Instr. 3)			2. Transact Date (Month/Day	ion	2A. De		d Date,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a		l (A) or		5. Amou Securiti Benefic Owned	5. Amount of Securities Beneficially Owned Following		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
	Code V Amount (A) or (D)							Price		Reporte Transac (Instr. 3	tion(s)			(Instr. 4)					
Common	Stock			03/10/2	015				M		10,500	A	\$2	.09	10,500			D	
Common Stock			03/10/2	3/10/2015				S ⁽¹⁾		6,216	D	\$109.	109.6126 ⁽²⁾		4,284		D		
Common Stock			03/10/2015					S ⁽¹⁾		3,484	D	\$110.	4707 ⁽³⁾	8	800		D		
Common Stock			03/10/2015				S ⁽¹⁾		700	D	\$111.	\$111.6514 ⁽⁴⁾		100		D			
Common	Stock		03/10/2015			5		S ⁽¹⁾		100	D	\$112.26		0			D		
			Table								sposed of s, converti				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execu) if any	eemed Ition Date, h/Day/Year)	d 4. Date, Trans Code		saction e (Instr. Securitie: Acquired (A) or Disposed of (D) (Ins 3, 4 and 5		6. Date Exe Expiration (Month/Day		rcisable and Date	7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		ount 8	Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Own For Dire or I (I) (10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	de V	(A)	(D)	Date Exer	cisable	Expiration Date	Title	or	ount nber res					
Stock Option (right to buy)	\$2.09	03/10/2015			M			10,500		(5)	07/13/2021	Comm Stock		500	\$0.00	79,307	7	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 October 11, 2013.
- 2. The range of prices for the transaction reported on this line was \$109.16 to \$110.1400. The average weighted price was \$109.6126. 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 \$110.17 to \$110.83. The average weighted price was \$110.4707. 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 \$111.24 to \$112.0550. The average weighted price was \$111.6514. 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. 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-

03/11/2015

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.