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

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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)		rst) (Middle)		Date of Earliest Transaction (Month/Day/Year) 4/10/2014							X Officion below	er (give title w)		(specify			
150 SECOND STREET						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street) CAMBR)2141 Zip)												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. Transactio Date (Month/Day/Y					/Year)	Exec if any	Deemed ution Date,		3. Transact Code (In 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)				d Secur Benef Owne	ficially d	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A)	or Pi	ice			(Instr. 4)	(Instr. 4)	
Common Stock 04/10/20					014				М		6,00	0 A		\$2.09)	6,000	D		
Common Stock 04/10/20					014	14			S ⁽¹⁾		6,00	0 D	\$	21.29	(2)	0	D		
		Ta	able I	I - Derivat (e.g., p					uired, D , option						Owned				
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 tion Date, h/Day/Year)	4. Transactior Code (Instr 8)		n Number		6. Date Ex Expiration (Month/Da	Date	В	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price of Derivative Security (Instr. 5)	9. Number o derivative Securities Beneficially Owned Following Reported Transaction ((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title	or Num of	umber					
Stock Option (right to buy)	\$2.09	04/10/2014			М			6,000	(3)	0	7/13/2021	Common Stock	6,0	00	\$0.00	205,307	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 \$20.87 to \$22.33. The average weighted price was \$21.2936. 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-Fact

04/14/2014

** 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.