FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPI	ROVAL
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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)

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

1. Name and Address of Reporting Person*  Walsh Jeffrey T.						2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]										neck all app Direc	licable) tor	,		wner	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET							of Earlie	est Tran	saction	(Mont	th/D	Day/Year)		A belov	v) ``	Other (specify below) ating Officer		<b>Бреспу</b>			
(Street) CAMBR (City)			02141 (Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Applicate)  X Form filed by One Reporting Person											on					
(City)	(3			n-Deriv	ative	Se	curiti	ies Ac	auire	d D	isr	nosed o	of o	r Ben	eficia	lly Owne	-d				
1. Title of Security (Instr. 3)  2. Trans Date (Month/I			action	ar) i	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		on				d (A) or	5. Amo Securi Benefi Owner	ount of ties cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Co	de V		Amount	(A) or (D)		Price	Transa	Reported Transaction(s) (Instr. 3 and 4)				
Common Stock 07					)/2014	4			N			7,500	)	A	\$2.0	9	,500		D		
Common	Stock			07/10	)/2014	4			S <sup>(</sup>	1)		7,500	)	D	\$33.2	(2)	0	D			
		Т	able II -							•		sed of, onverti				/ Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,		ransaction ode (Instr.		ı of l		6. Date Exercisa Expiration Date (Month/Day/Yea			7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)			8. Price o Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerci	sable	Ex Da	kpiration ate	Title		Amount or Number of Shares						
Stock Option (right to	\$2.09	07/10/2014			M			7,500	(3	)	07	7/13/2021		nmon ock	7,500	\$0.00	184,30	)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 \$32.81 to \$33.53. The average weighted price was \$33.2023. 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-07/14/2014 **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.