FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL											
OMB Number:	3235-02										

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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

Name and Address of Reporting Person* Walsh Jeffrey T.						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									Officer (give title			10% Ov Other (s	0% Owner ther (specify	
	(F JEBIRD BI OND STRI	O, INC.	(Middle)			Date of /14/20		est Tran	saction (N	Jonth	n/Day/Year)		X	below) below) Chief Operating Officer						
(Street) CAMBR (City)			02141 (Zip)		_ 4. It	4. If Amendment, Date of Original Filed (Month/Day/Year)									Form f	or Joint/Group Filing (Check Applicable rm filed by One Reporting Person rm filed by More than One Reporting rson				
		Tab	le I - No	on-Deri	vative	Sec	urit	ies Ac	quired	, Di	sposed o	of, or Be	neficia	ally C	Owned	l				
1. Title of Security (Instr. 3) 2. Trans: Date (Month/I					Exe f) if a	2A. Deemed Execution Date, if any (Month/Day/Year)					es Acquired Of (D) (Insti		and 5) Securiti Benefic Owned		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
										v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3		ction(s)			(Instr. 4)	
Common Stock 05/14/20						014			M		1,500	A	\$2.0	9	1,	,500		D		
Common Stock 05/14/				/2014	014					1,500	D	\$20.0	3(2)	(2) 0		D				
		7	able II								posed of converti				vned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deer Execution if any (Month/E		4. Transa Code (8)		ion of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly [10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	ble	Expiration Date	Title	Amount or Number of Shares							
Stock Option (right to buy)	\$2.09	05/14/2014			M			1,500	(3)		07/13/2021	Common Stock	1,500	\$	60.00	199,30	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 \$20.00 to \$20.25. The average weighted price was \$20.0340. 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-05/16/2014 **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.