## FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

STATEMENT	OF CHANGES I	N BENEFICIAL	OWNERSHIP

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

Name and Address of Reporting Person*     Walsh Jeffrey T.						2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]								Checl	k all applic Directo	or 10		10% Ov	to Issuer % Owner her (specify
	(FI JEBIRD BI OND STRI	O, INC.	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 04/10/2014								X	below)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(Street)			02141		4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Line)  X Form filed by One Reporting Per Form filed by More than One Re Person										orting Perso	n		
(City)	(S	tate) (	Zip)												1 01001	•			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transact Date (Month/Day				Execution Date,		n Date,	Transaction Code (Instr.		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			and 5) Securiti Benefic		es ally Following			7. Nature of Indirect Beneficial Ownership (Instr. 4)		
							Code	v	Amount	(A) or (D)	Price		Transac				(msu. 4)		
Common Stock 04/10/20				/2014	014		М		6,000	A	\$2.	09	6,	,000		D			
Common Stock 04/10/20				/2014	.014			S <sup>(1)</sup>		6,000	D \$21		29 <sup>(2)</sup>		0		D		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deer Execution if any (Month/E	n Date,	Code (I		ction of		6. Date Exercis Expiration Date (Month/Day/Yea		te	7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		D Sc (li	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transactio (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amou or Number of Shares	er					
Stock Option (right to	\$2.09	04/10/2014			M			6,000	(3)		07/13/2021	Common Stock	6,00	0	\$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.