## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	<b>OF CHANGES</b>	IN BENEFICIAL	<b>OWNERSHIP</b>

OMB APPROVAL OMB Number: Estimated average burden 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)

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*     Bain Linda						2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]								(Checl	k all applic Directo	,		rson(s) to Issuer  10% Owner Other (specify	
	(F JEBIRD B OND STR	IO, INC.	(Middle)		02/	3. Date of Earliest Transaction (Month/Day/Year) 02/26/2014									VP, Fin. & Business Operations				
(Street) CAMBR (City)			02141 (Zip)		_   4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indi Line) X	vidual or Joint/Group Filing (Check Applicable  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. Tra		2. Transa Date (Month/D		ey/Year)   Exe		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a				es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct of the contract of the	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	!	Transact	Reported Transaction(s) (Instr. 3 and 4)			Instr. 4)	
Common Stock (			02/26/	/2014	014			M		500	A	\$2	.09	5	00	I	D		
Common Stock			02/26/	/2014	2014					500	D	\$25	.03(2)		0		D		
Common Stock 03			03/03/	/2014	:014			M		2,500	A	\$2	.09 2		2,500		D		
Common Stock 03/03.			/2014	014		<b>S</b> <sup>(1)</sup>		2,500	D \$24.79 <sup>(3)</sup>		0		I	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. Conversi or Exerci Price of Derivative Security		3. Transaction Date (Month/Day/Year)	3A. Deer Execution if any (Month/I	ned	4. Transa Code ( 8)	ction	5. Number of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. D Se (li	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownersh Form: y Direct (D) or Indirec (I) (Instr.	Ownership Form: Direct (D) or Indirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)		Date Exercisa		Expiration Date	Title	Amou or Numb of Share	nber					
Stock Option (right to	\$2.09	02/26/2014			M			500	(4)		10/25/2021	Common Stock	500		\$0.00	51,016	5	D	

## **Explanation of Responses:**

\$2.09

- 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 15, 2013.
- 2. The range of prices for the transaction reported on this line was \$25.00 to \$25.09. The average weighted price was \$25.026. 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.

2.500

(4)

10/25/2021

- 3. The range of prices for the transaction reported on this line was \$24.05 to \$25.40. The average weighted price was \$24.785. 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. This option vests over a four-year period, at a rate of twenty-five percent (25%) on October 19, 2012 and in 36 equal monthly installments thereafter.

## Remarks:

buv) Stock Option

(right to

buy)

/s/ Linda C. Bain

03/05/2014

48,516

D

\*\* Signature of Reporting Person

2,500

Stock

\$0.00

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).

03/03/2014

\*\* 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.