FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

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

1. Name and Address of Reporting Person*  Bain Linda						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]								(Chec	k all appli Directo	onship of Reporting Person(s) to Issuer Ill applicable) Director 10% Owner Officer (give title Other (speci			vner
	(Fi JEBIRD BI OND STRI	O, INC.	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 02/11/2014								X	below) below)  VP, Fin. & Business Operations				
(Street) CAMBR (City)			02141 (Zip)		_   4. li	f Ame	endmer	nt, Date	of Original	Filed	(Month/D	ay/Year)		6. Indi Line) X	Form f	iled by One	e Rep	g (Check Ap orting Perso n One Repo	n
		Tab	le I - Noi	า-Deriง	vative	e Se	curiti	ies Ac	quired,	Dis	posed o	of, or Be	enefic	ially	Owned	i			
Date					Exec eay/Year) if any		A. Deemed Execution Date, f any Month/Day/Year)		Transaction Dispose Code (Instr. 5)		rities Acquired (A) ed Of (D) (Instr. 3, 4		4 and Secu Bene Own		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	(A) o	Pric	e	Reported Transaction(s) (Instr. 3 and 4)				msu. 4)	
Common Stock 02/11/				1/201	2014		M		1,000	0 A	\$2	2.09	1,000			D			
Common Stock 02/11/			1/201	2014		S <sup>(1)</sup>		1,000	0 D	\$2	2.5		0		D				
		Т	able II -						uired, E s, optior			•		•	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/Day	Date, Transa Code					Expiration	. Date Exercisal expiration Date Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		De Se (In	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	s Blly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Co	Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title	Amou or Numb of Share	mber					
Stock Option (right to	\$2.09	02/11/2014			M			1,000	(2)	1	0/25/2021	Common Stock	1,00	0	\$0.00	51,516	6	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 15, 2013.
- 2. This option vests over a four-year period, at rate of twenty-five percent (25%) on October 19, 2012 and in 36 equal monthly installments thereafter.

## Remarks:

/s/ Linda C. Bain

02/12/2014

\*\* 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.