FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

OMB APPROVAL OMB Number: Estimated average burden

0.5

hours per response:

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* <u>Bain Linda</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									tionship of Reporting Person(s) to Issuer all applicable) Director 10% Owner Officer (give title Other (specify				vner	
	(F JEBIRD BI OND STRI	IO, INC.	(Middle)		01/	3. Date of Earliest Transaction (Month/Day/Year) 01/02/2014								X	VP, Fin. & Busi			below)	ns	
(Street) CAMBRIDGE MA 02141						4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S		(Zip)																	
			le I - No						1	l, Di	sposed o									
Da				2. Transa Date (Month/Da	Execution Date,			3. Transa Code (8)			ecurities Acquired (A) o posed Of (D) (Instr. 3, 4 a					6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
										v	Amount	(A) or (D) Price		Trancac		tion(s)			()	
Common Stock				01/02/	/2014				М		3,000	A	\$2.0	9 3,		000		D		
Common Stock 0				01/02/	/2014				S ⁽¹⁾		3,000	D	\$20.8	3(2)		0		D		
Common Stock 01/03				01/03/	/2014	2014					2,000	A	\$2.0	9	2,	,000		D		
Common Stock 01/03/2				/2014	014			S ⁽¹⁾		2,000	D	\$20.9	\$20.99(3)		0		D			
		7	able II								oosed of converti				ned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deer Executic if any (Month/I	on Date,	4. Transa Code (I 8)				6. Date Exercis Expiration Date (Month/Day/Ye		te	7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		Deri Sec (Ins	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)		Date Exercisa	ıble	Expiration Date	Title	Amoun or Numbe of Shares	ber						
Stock Option (right to buy)	\$2.09	01/02/2014			М			3,000	(4)		10/25/2021	Common Stock	3,000	\$	0.00	60,516		D		
Stock Option	\$2.09	01/03/2014			М			2.000	(4)		10/25/2021	Common	2.000	\$	0.00	58,516		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. The range of prices for the transaction reported on this line was \$20.22 to \$21.40. The average weighted price was \$20.825. 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. The range of prices for the transaction reported on this line was \$20.83 to \$21.26. The average weighted price was \$20.9873. 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:

buy)

/s/ Linda C. Bain

01/03/2014

** 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.