FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPRO	MB APPROVAL umber: 3235-0287						
OMB Number:	3235-0287						
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).

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* Bain Linda						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last)	(F UEBIRD B		Middle)		3. Date of Earliest Transaction (Month/Day/Year) 01/02/2014								X	Officer (give title		Other below	(specify	
150 SECOND STREET						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable					
(Street) CAMBRIDGE MA 02141														Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S	tate) (Zip)																
			le I -	Non-Deriv					. 	Dis	. 				_				
1. Title of Security (Instr. 3)			2. Transact Date (Month/Day	- 1	Exec if an	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.) 8)					3, 4 and Sed Bei Ow		mount of urities eficially ned	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) (D)	or Pri	ce	Repo	owing orted saction(s) c. 3 and 4)	(Instr. 4)	(Instr. 4)		
Common Stock				01/02/2	01/02/2014				M		3,00	0 A	. \$	2.09		3,000	D		
Common Stock			01/02/2014				S ⁽¹⁾		3,00	0 1	\$2	0.83(2)		0	D				
Common Stock			01/03/2	014			M		2,00	0 A	. \$	2.09		2,000	D				
Common Stock 01/03/20				014	14			S ⁽¹⁾		2,000 D		\$2	0.99(3)	9 ⁽³⁾ 0		D			
		Ta	able I	I - Deriva (e.g., p					uired, D , option	•		-		-	wned	1			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	aversion Date Sarcium		tion Date,	4. Transa Code (I 8)	5. Nu (Instr. of De See (A) Dis of		rivative curities quired or posed	6. Date Exerci Expiration Da (Month/Day/Yo		е	7. Title and Amount of Securities Underlying Derivative Security (Inst and 4)		of Der Sed (In:	Price rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownershi	
				Code					xpiration ate	Title	Amour or Numbe of Title Shares								
Stock Option (right to buy)	\$2.09	01/02/2014			М			3,000	(4)	1	0/25/2021	Commo: Stock	3,00	00 \$	60.00	60,516	D		
Stock Option (right to buy)	\$2.09	01/03/2014			M			2,000	(4)	1	0/25/2021	Commo: Stock	2,00	00	60.00	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:

/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.

 $^{^{\}star}$ 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.