FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
Estimated average burden							
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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)	,		Middle)		3. Date of Earliest Transaction (Month/Day/Year) 01/22/2014									X Offic below	er (give title w)	Other below	(specify	
C/O BLUEBIRD BIO, INC. 150 SECOND STREET															VP, Fin. & Business Operations				
							4. If Amendment, Date of Original Filed (Month/Day/Year)								e)	or Joint/Group Filing (Check Applicable			
(Street) CAMBRIDGE MA 02141															X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(S	tate) (Zip)																
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Y					/Year)	Exectificany	Deemed ution Date, y th/Day/Year)		3. Transact Code (In 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)				nd Secur Benet Owne	ficially d	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D) Pr		rice			(Instr. 4)	(Instr. 4)	
Common Stock 01/22/201									M		2,50	0 A		\$2.09	9	2,500	D		
Common Stock 01/22/201					014	14			S ⁽¹⁾		2,50	0 D	\$	25.11	(2)	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		3A. Deemed Execution D if any (Month/Day/	tion Date,	4. Transac Code (II 8)			mber vivative curities quired or posed D) str. 3, and 5)	6. Date Ex Expiration (Month/Da	Date	е	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title	or Nun of	umber					
Stock Option (right to buy)	\$2.09	01/22/2014			М			2,500	(3)	10	0/25/2021	Common	2,5	00	\$0.00	56,016	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 \$25.00 to \$25.38. The average weighted price was \$25.1075. 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 rate of twenty-five percent (25%) on October 19, 2012 and in 36 equal monthly installments thereafter.

Remarks:

<u>/s/ Linda C. Bain</u> <u>01/24/2014</u>

** 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.