FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

#### vvasimigton, b.c. 20045

OMB APPROVAL									
OMB Number:	3235-0287								
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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

1. Name and Address of Reporting Person*  Bain Linda  (Last) (First) (Middle)  C/O BLUEBIRD BIO, INC.  150 SECOND STREET						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]  3. Date of Earliest Transaction (Month/Day/Year) 02/03/2014									5. Relationship of Reporting Person(s) to Issuer Check all applicable)  Director 10% Owner X Officer (give title below)  VP, Fin. & Business Operations				
(Street) CAMBR (City)	4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)									ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person								
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transac Date (Month/Da						ction 2A. Deemed Execution Date,				action (Instr.	4. Securities Acquired (A)			or 5. Amor 4 and Securiti Benefic Owned		nt of es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
Common Stock 02/03/2									Code	v	Amount	(A) or (D) Pr		e 2.09	Reporte Transac (Instr. 3	tion(s)	D		(Instr. 4)
Common Stock 02/03						-			S <sup>(1)</sup>	<del>                                     </del>			D \$21.		-,		D		
		7	able II -								osed of converti	•		•	wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transa Code ( 8)				6. Date E Expiratio (Month/D	n Date	Amount of		of s ng e Secur	S (I	3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisal		xpiration vate	Title	Amou or Numb of Share	er					
Stock Option (right to	\$2.09	02/03/2014			M			3,500	(3)	1	.0/25/2021	Common Stock	3,50	0	\$0.00	52,516	5	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 \$20.85 to \$22.02. The average weighted price was \$21.3002. 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>

02/05/2014

\*\* 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.