FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPROVAL							
	OMB Number:	3235-0287						
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l	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 ar Bain Li (Last) C/O BLU	- <u>bl</u> ı	2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE] 3. Date of Earliest Transaction (Month/Day/Year) 01/22/2014								Relationship of Reporting Person(s) to Issu Check all applicable) Director 10% Ow X Officer (give title below) VP, Fin. & Business Operation				ner pecify					
150 SECOND STREET (Street) CAMBRIDGE MA 02141 (City) (State) (Zip)							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. Transacti Date (Month/Day)					action	ion 2A. Deemed Execution Date,			3. 4. Securiti			es Acquired Of (D) (Insti	d (A) or	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
Common Stock 01/22/20							014			v	Amount 2,500	(A) or (D)	Price \$2.0	(Instr.	ed etion(s) and 4)		D	(Instr. 4)	
Common Stock 01/22/20						ļ		S ⁽¹⁾		2,500	D	\$25.11		0		D			
		Т	able II								osed of converti	•		/ Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)			4. Transa Code (8)		on of		6. Date Exercisa Expiration Date (Month/Day/Yea		e Amount of		f g Security	8. 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)	Beneficial Ownership ct (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisab		Expiration Date	Title	Amount or Number of Shares						
Stock Option (right to	\$2.09	01/22/2014			M			2,500	(3)		10/25/2021	Common Stock	2,500	\$0.00	56,016	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 \$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:

/s/ Linda C. Bain 01/24/2014

** 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.