FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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)

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* Finer Mitchell H.				2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify						
(Last) C/O BLU	(F JEBIRD B	•	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 12/16/2013								below)			below)	вреспу
840 MEMORIAL DRIVE, 4TH FLOOR				4	If Amendment, Date of Original Filed (Month/Day/Year)							6 1	6. Individual or Joint/Group Filing (Check Applicable					
(Street) CAMBRIDGE MA 02139				_	4. II Amendinent, Date of Original Flied (World / Day/ Teal)							Line	Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S	state)	(Zip)											1 01301				
		Tak	le I - No	n-Deri	vativ	e Se	curit	ties Ac	quired,	, Dis	sposed o	f, or Be	neficial	y Owned	l			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired (A) of (D) (Instr. 3, 4)				Benefic Owned	es Fo ally (D Following (I)	Form (D) o	6. Ownership Form: Direct D) or Indirect I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)		
Common Stock 12/16/2			5/2013	.013		M		18,000	A	\$0.95	18	18,000		D				
Common Stock 12/16/2			5/2013	2013		S ⁽¹⁾		18,000	D	\$20.65	0			D				
			Table II -								osed of, convertil			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	te Execution	Date, Transa Code (6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amount or Number of Shares	r				
Stock Option (right to	\$0.95	12/16/2013			M			18,000	(3)		09/15/2020	Common Stock	18,000	\$0.00	91,76	9	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 11, 2013.
- 2. The range of prices for the transaction reported on this line was \$20.00 to \$21.41. The average weighted price was \$20.6472. 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 in 48 equal monthly installments, commencing on March 8, 2010.

Remarks:

/s/ Linda C. Bain, Attorney-in-12/18/2013 Fact

** 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.