FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

TATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

ı	OMB APPRO	JVAL						
	OMB Number:	3235-0287						
l	Estimated average burden							
ı	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

Name and Address of Reporting Person* <u>Finer Mitchell H.</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									of Reportin cable) or (give title	g Pers	erson(s) to Issuer 10% Owner Other (specify	
	(F JEBIRD BI OND STRI	O, INC.	(Middle)			Date of Earliest Transaction (Month/Day/Year) 01/16/2014 4. If Amendment, Date of Original Filed (Month/Day/Year)									below) below) Chief Scientific Officer			
(Street)	IDGE M	IA	02141		4.1									e) X Form	r Joint/Group Filing (Check filed by One Reporting Pe filed by More than One Re on		orting Person	rson
(City)	(5		(Zip)															
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transac Date (Month/Da		action	2A. Deemed Execution Date, if any (Month/Day/Year)		A. Deemed xecution Date, any		3. 4. Securiti Disposed Code (Instr.		of, or Beneficiallines Acquired (A) or Of (D) (Instr. 3, 4 and 5)		5. Amor Securiti Benefic Owned	unt of es ially Following	Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership			
						Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)			
Common Stock 01/16/2 Common Stock 01/16/2					5/2014				10,000	A	\$0.95	10),000		D			
					5/2014		S ⁽¹⁾		10,000	D	\$23.52	(2)	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)	3A. Deem Execution if any (Month/Da	Date,	Code (Ins				6. Date Exercisable and Expiration Date (Month/Day/Year)		te	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	s S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amount or Number of Shares					
Stock Option (right to	\$0.95	01/16/2014			M			10,000	(3)		09/15/2020	Common Stock	10,000	\$0.00	81,76	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 \$22.62 to \$24.59. The average weighted price was \$23.5179. 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-01/17/2014 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.