FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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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).
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL 3235-0287 Estimated average burden 0.5 hours per response

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* <u>Leschly Nick</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
					3. Date of Earliest Transaction (Month/Day/Year) 03/03/2014								My Officer (give title below) President a			Other (s below)	pecify	
(Street) CAMBRIDGE MA 02141 (City) (State) (Zip)				4. 	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(=:9)				n-Dei	rivativ	ve S	ecurities	s Ac	auired	. Dis	sposed o	of. or Be	neficiall	y Owned				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day				saction	tion 2A. Deemed Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4)			d (A) or	5. Amour Securitie Beneficia Owned F	s Formully (D) (ollowing (I) (I		m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership			
								Code	v	Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a	ion(s)			Instr. 4)	
Common Stock 03/03/2)3/201	014		S ⁽¹⁾		5,000	D	\$24.79	314	,318		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	3. Transaction Date (Month/Day/Year)	ate Execution D	Date, Transacti Code (Ins			n Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amou of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported	e s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares		Transaction (Instr. 4)	on(s)		
Stock Option (right to	\$24.47	03/03/2014			A		165,000		(3)		03/03/2024	Common Stock	165,000	\$0.00	165,00	00	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 \$24.05 to \$25.40. The average weighted price was \$24.785. 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 a rate of twenty-five percent (25%) on January 1, 2015 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Linda C. Bain, Attorney-in-03/05/2014 **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.