FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
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).

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

Name and Address of Reporting Person* Leschly Nick						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								(Che	Relationship of Reporting Perso (Check all applicable) X Director			Issuer Owner	
(Last)	(Firs	,	(Middle)					3. Date of Earliest Transaction (Month/Day/Year) 07/01/2014									Other (specify below) and CEO		
150 SECOND STREET						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street)															,	Form filed by One Reporting Person			
CAMBRIDGE MA 02141															Form filed by More than One Reporting Person				
(City)	(Sta	ite) (Z	(ip)																
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/N					Execution Date,						ties Acquired (A) d Of (D) (Instr. 3,			d Secur	ficially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
	Code	v	Amount	(A) (D)				or Pi	ice	Repo Trans		(msu. 4)	(111501. 4)						
Common St	14			S ⁽¹⁾		20,040	Γ	\$	\$39.84(2)		35,544	D							
Common Stock 07/02/20						14			S ⁽¹⁾		943	43 D \$4		40.02	334,601		D		
Common Stock 07/03/20					14		S ⁽¹⁾		1,300	D \$		\$40	333,301		D				
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
Security o (Instr. 3) P	conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if any	Deemed ution Date, y yth/Day/Year)	4. Transac Code (I 8)		5. Nu of Deriv Secur (A) or Dispo of (D) (Instrand 5	ative rities ired rosed	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Exercisable Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amou or Numb of Title Share		unt ber	. Price of Derivative Decurity Hostr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

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 \$38.93 to \$40.31. The average weighted price was \$39.8434. 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. The range of prices for the transaction reported on this line was \$40.00 to \$40.12. The average weighted price was \$40.0212. 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.

Remarks:

/s/ Eric Sullivan, Attorney-in-Fact

07/03/2014

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.