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]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
						3. Date of Earliest Transaction (Month/Day/Year) 06/20/2014										Office	,	Other below	(specify	
150 SECOND STREET						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) CAMBR (City)	CAMBRIDGE MA 02141														X					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Y						n 2A. Deemed Execution Date,			3. 4. Securities Acq Transaction Code (Instr. 8) 5.				quired	(A) or) or 5. An Securible Securible Securible Owner		ount of ities icially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
						Code	v	Amount	(A)	or	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(msu. 4)	(Instr. 4)				
Common	14			S ⁽¹⁾		17,075]	D :	\$40.0	6(2)	35	55,584	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)	erivative Conversion Date Execu ecurity or Exercise (Month/Day/Year) if any		tion Date,	4. Transaction Code (Instr. 8)		5. Nu of Deriv Secur Acqui (A) or Dispo of (D) (Instrand 5	ative rities ired osed	6. Date Expirat (Month	ion D /Day/		7. Title and Amount of Securities Underlying Derivative Security (Insti 3 and 4) Amou or Numb of Title Share		nstr.	8. Prio of Deriva Securi (Instr.	ative ity	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 \$40.00 to \$40.42. The average weighted price was \$40.0553. 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/ Jason F. Cole, Attorney-in-Fact 06/24/2014

** 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.