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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0.5

hours per response:

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 S	Section	30(h)	of the	Investme	ent Co	mpany Act	of 1940	1								
1. Name and Address of Reporting Person* <u>Leschly Nick</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								5. (C	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
															X Dire		ctor		10% Owner		
(Last) (First) (Middle)							Date of Earliest Transaction (Month/Day/Year)									Office	er (give title v)	Other (specify below)			
C/O BLUEBIRD BIO, INC.						10/24/2014									President and CEO						
150 SECOND STREET																					
130 SECOND STREET						If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable						
(Street)					4.11	4. II Amendment, Date of Original Filed (Month/Day/Year)									Line)						
CAMBRIDGE MA 02141														X Form filed by One Reporting Person					on		
															Form filed by More than One Rep						
(City)	(5	State)	(Zip)													Person					
		Tab	le I - No	on-Deriv	ative	Sec	uritie	s Ac	quired	, Dis	posed o	f, or l	Ben	eficia	ally O	wne	ed				
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day						Execution		Date,	Transaction Disposed C		es Acquired (A) o Of (D) (Instr. 3, 4			and 5) Sec Ben Owi		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) (D)	or	Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Common Stock 10/24/20						014			S ⁽¹⁾		33,900	I)	\$40.22(2)		273,170		Ι)		
	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		3A. Dee Execution if any (Month/I	on Date,		ansaction ode (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisabl Expiration Date (Month/Day/Year)		le and 7. Title and Amount of Securities Underlying Derivative Security (Ir and 4)		str. 3			9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	n: ct (D) ndirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	or	ount nber ares							

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 \$40.89. The average weighted price was \$40.2155. 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 10/28/2014

** 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.