FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* 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)				
LESCHIY TYICK														X	Dire	ctor	10%	Owner
(Last) (First) (Middle)						Date of Earliest Transaction (Month/Day/Year)								X Offi belo		er (give title w)	Othe belov	(specify v)
C/O BLUEBIRD BIO, INC.							01/02/2014							President and CEO				
150 SECOND STREET																		
(Ctt)					- 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street) CAMBRIDGE MA 02141											X Form filed by One Reporting Person							
											-		Form filed by More than One Reporting Person					
(City)	(S	tate) (Zip)												. 0.0			
		Tabl	e I - No	on-Deriv	/ative	Sec	uritie	s Ac	quired	l, Dis	sposed o	f, or E	Benefi	cially	Own	ed		
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day						Execution Date,					s Acquired (A) o of (D) (Instr. 3, 4 a		and 5) Secur Benef		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	Amount (A) or (D)		e	Trans	action(s) 3 and 4)		(111501.4)	
Common Stock 01/02/20						014		S ⁽¹⁾		5,000	5,000 D \$2		0.83(2)	324,318 ⁽³⁾		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)	vative Conversion Date Execution Date, urity or Exercise (Month/Day/Year) if any				ransaction of ode (Instr. Deriv		r osed) :. 3, 4	6. Date Expirat (Month	ion Da		Amount of Securities Underlying Derivative Security (Instr. and 4)		t		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Number of Shares							

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 \$20.22 to \$21.40. The average weighted price was \$20.825. 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. Includes 62 shares received as a pro rata distribution in kind from Third Rock Ventures GP, L.P.

Remarks:

/s/ Linda C. Bain, Attorney-in-01/03/2014 **Fact**

** Signature of Reporting Person

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.