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

Washington, D.C. 20549

STATEMENT	<b>OF CHANGES</b>	IN BENEFICIAL	<b>OWNERSHIP</b>

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*					2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
<u>Leschly Nick</u>													1	X	Directo	or	10% Owner		ner
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET					11.	3. Date of Earliest Transaction (Month/Day/Year) 11/01/2017								X	Officer (give title Other (specify below)  President and CEO				
(Street) CAMBRIDGE MA 02142			-   4. I -	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	ridual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person						
(City)	(5	State)	(Zip)																
		Tab	le I -	Non-Deri	vativ	e Sec	uriti	es A	cquir	ed, D	isposed (	of, or I	Benefi	cially	Owned	l			
Date			2. Transaction Date (Month/Day/		Execut			3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			l 5)	5. Amount of Securities Beneficially Owned Followin Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)				Instr. 4)
Common Stock 11			11/01/20	)17	17			M		2,127	A	\$5.5	5004	257,48			D		
Common Stock 11/0		11/01/20	)17	17					2,127	D	\$145.	1713 <sup>(2)</sup>	25	5,359		D			
Common Stock														17,186			I I	Nick Leschly 2001 Frust	
	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. Convers or Exert Price of Derivati Security		ise (Month/Day/Year)	Execu if any	Execution Date, if any		4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		De Se (Ir	Price of erivative ecurity estr. 5)		Owners Form: Direct (I or Indire (I) (Instr	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisabl		Expiration Date	Title	Amo or Num of Shai	ber					
Stock Option (right to	\$5.5004	11/01/2017			M			2,127		(3)	01/16/2023	Commo Stock		27	\$0.00	241,228	В	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 December 22, 2016.
- 2. The range of prices for the transaction reported on this line was \$145.00 to \$145.30. The average weighted price was \$145.1713. 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 to purchase shares of our common stock was granted on January 16, 2013 with performance-based vesting criteria that were met as of May 1, 2013. The shares underlying these options vested as follows: 25% vested on May 1, 2014, with the remainder of the shares vesting in equal monthly installments over the following three years.

## Remarks:

/s/ Jason F. Cole, Attorney-in-

11/03/2017

**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.