bluebird bio, Inc. Form 4 June 28, 2016

FORM 4

OMB APPROVAL

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB 3235-0287 Number:

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

January 31, Expires: 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *Leschly Nick			2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC., 150 SECOND STREET			bluebird bio, Inc. [BLUE] 3. Date of Earliest Transaction			
			(Month/Day/Year) 06/24/2016	_X_ Director 10% Owner Self-width of the property o		
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line)		
CAMBRIDG	E, MA 0214	1		_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tab	le I - Non-l	Derivative Securities Acqui	red, Disposed of,	or Beneficiall	y Owned
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securities Acquired (A)	5. Amount of	6.	7. Nature of
Security	(Month/Day/Year)	Execution Date, if	Transactio	omr Disposed of (D)	Securities	Ownership	Indirect
(Instr. 3)		any	Code	(Instr. 3, 4 and 5)	Beneficially	Form:	Beneficial
		(Month/Day/Year)	(Instr. 8)		Owned	Direct (D)	Ownership

		(Month/Day/Year)	(Instr. 8))	(A)		Owned Following Reported	Direct (D) or Indirect (I)	Ownership (Instr. 4)
			Code	V Amou	or	Price	Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Common Stock	06/24/2016		M	9,611		\$ 2.0864	345,655	D	
Common Stock	06/24/2016		M	10,21	5 A	\$ 5.5004	355,870	D	
									Nick

Common 17,186 I Stock 2001 Trust

Leschly

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exer Expiration D (Month/Day,	ate	7. Title and Underlying (Instr. 3 and	Securities 1
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 2.0864	06/24/2016		M	9,611	<u>(1)</u>	06/04/2022	Common Stock	9,611
Stock option (right to buy)	\$ 5.5004	06/24/2016		M	10,215	(2)	01/16/2023	Common Stock	10,215

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			

Leschly Nick C/O BLUEBIRD BIO, INC. 150 SECOND STREET CAMBRIDGE, MA 02141

X

President and CEO

Deletionships

Signatures

/s/ Jason F. Cole, Attorney-in-Fact 06/28/2016

**Signature of Reporting Person D

Explanation of Responses:

- * 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).
- (1) This option vests over a four-year period, at a rate of twenty-five percent (25%) on May 1, 2013 and in 36 equal monthly installments thereafter
- This option to purchase shares of our common stock granted on January 16, 2013 with performance-based vesting criteria that were met as of January 1, 2013. The shares underlying these options vested as follows: 25% vested on January 1, 2014, with the remainder of the shares vesting in equal monthly installments over the following three years.

Reporting Owners 2

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Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.