bluebird bio, Inc. Form 4 **September 10, 2015**

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

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January 31, 2005

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if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

SECURITIES 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).

Common

Stock

09/08/2015

(Print or Type Responses)

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)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction				
C/O BLUEBIRD BIO, INC., 150 SECOND STREET		NC., 150	(Month/Day/Year) 09/08/2015	_X_ Director 10% Owner _X_ Officer (give title Other (specif below) President and CEO			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
CAMBRIDG	E, MA 021	41	Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting			
				Person			

(City)	(State)	(Zip) Tal	ble I - Non	-Derivative	Secur	ities Acquired	d, Disposed of, or	r Beneficially	Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr. 8)	onDisposed of (Instr. 3, 4 a	f (D) and 5) (A) or		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	09/08/2015		Code V M	Amount 125,000	(D)	Price \$ 5.5004	371,521	D	
Common Stock	09/08/2015		S <u>(1)</u>	2,100	D	\$ 131.0064 (2)	369,421	D	
Common Stock	09/08/2015		S <u>(1)</u>	8,300	D	\$ 131.7037	361,121	D	

5,216

 $S^{(1)}$

(3)

(4)

132.6365 355,905

D

D

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Common Stock	09/08/2015	S <u>(1)</u>	12,241	D	\$ 133.9559 (5)	343,664	D	
Common Stock	09/08/2015	S <u>(1)</u>	37,375	D	\$ 134.8592 (6)	306,289	D	
Common Stock	09/08/2015	S(1)	22,610	D	\$ 135.752 (7)	283,679	D	
Common Stock	09/08/2015	S <u>(1)</u>	25,758	D	\$ 136.8012 (8)	257,921	D	
Common Stock	09/08/2015	S <u>(1)</u>	10,200	D	\$ 137.7611 (9)	247,721	D	
Common Stock	09/08/2015	S(1)	1,200	D	\$ 138.53	246,521	D	
Common Stock						7,504	I	Nick Leschly 2001 Trust

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

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SEC 1474

(9-02)

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. Transaction Code (Instr. 8)	5. Number of orDerivative 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 Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 5.5004	09/08/2015		M		125,000	(10)	01/16/2023	Common Stock	125,000

Reporting Owners

Reporting Owner Name / Address Relationships

X

Director 10% Owner Officer Other

Leschly Nick

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

President and CEO

Signatures

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

09/10/2015

**Signature of Reporting Person

Date

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) The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on June 30, 2015.
- The range of prices for the transaction reported on this line was \$130.14 to \$131.14. The average weighted price was \$131.0064. 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.
- The range of prices for the transaction reported on this line was \$131.16 to \$132.12. The average weighted price was \$131.7037. 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.
- The range of prices for the transaction reported on this line was \$132.31 to \$133.29. The average weighted price was \$132.6365. 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.
- The range of prices for the transaction reported on this line was \$133.32 to \$134.32. The average weighted price was \$133.9559. 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.
- The range of prices for the transaction reported on this line was \$134.33 to \$135.33. The average weighted price was \$134.8592. 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.
- The range of prices for the transaction reported on this line was \$135.34 to \$136.30. The average weighted price was \$135.7520. 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.
- The range of prices for the transaction reported on this line was \$136.35 to \$137.34. The average weighted price was \$136.8012. 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.
- The range of prices for the transaction reported on this line was \$137.375 to \$138.185. The average weighted price was \$137.7611. 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.
- This option to purchase shares of our common stock granted on January 16, 2013 with performance-based vesting criteria that were met (10) 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.

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.

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