bluebird bio, Inc.
Form 4
August 11, 2015

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF 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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *
Leschly Nick

(Last) (First) (Middle)

C/O BLUEBIRD BIO, INC., 150 SECOND STREET

(Street)

CAMBRIDGE, MA 02141

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading Symbol
bluebird bio, Inc. [BLUE]

3. Date of Earliest Transaction (Month/Day/Year)
08/07/2015

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

__X__ Director _____ 10% Owner
__X__ Officer (give title below) _____ Other (specify below)
President and CEO

6. Individual or Joint/Group Filing(Check Applicable Line)
_X_ Form filed by One Reporting Person
___ Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			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)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	08/07/2015		M		6,056	A	$ 2.0864	252,577 (1)	D	
Comon Stock	08/07/2015		M		28,511	A	$ 2.0864	281,088	D	
Common Stock	08/07/2015		M		90,433	A	$ 5.5004	371,521	D	
Common Stock	08/07/2015		S(2)		419	D	$ 130.56 (3)	371,102	D	
Common Stock	08/07/2015		S(2)		1,528	D	$ 131.12	369,574	D	

					[4]		
Common Stock	08/07/2015	S[2]	12,171	D	$ 132.29 [5]	357,403	D
Common Stock	08/07/2015	S[2]	2,208	D	$ 133.08 [6]	355,195	D
Common Stock	08/07/2015	S[2]	1,766	D	$ 134.24 [7]	353,429	D
Common Stock	08/07/2015	S[2]	17,832	D	$ 135.51 [8]	335,597	D
Common Stock	08/07/2015	S[2]	19,365	D	$ 136.33 [9]	316,232	D
Common Stock	08/07/2015	S[2]	15,256	D	$ 140.36 [10]	300,976	D
Common Stock	08/07/2015	S[2]	15,815	D	$ 141.32 [11]	285,161	D
Common Stock	08/07/2015	S[2]	7,293	D	$ 142.35 [12]	277,868	D
Common Stock	08/07/2015	S[2]	13,158	D	$ 143.35 [13]	264,710	D
Common Stock	08/07/2015	S[2]	6,570	D	$ 144.4 [14]	258,140	D
Common Stock	08/07/2015	S[2]	4,912	D	$ 145.36 [15]	253,228	D
Common Stock	08/07/2015	S[2]	2,063	D	$ 146.81 [16]	251,165	D
Common Stock	08/07/2015	S[2]	1,262	D	$ 148.3 [17]	249,903	D
Common Stock	08/07/2015	S[2]	1,185	D	$ 149.29 [18]	248,718	D
Common Stock	08/07/2015	S[2]	1,019	D	$ 150.38	247,699	D

						(19)			
Common Stock	08/07/2015		S(2)	862	D	$ 151.67 (20)	246,837	D	
Common Stock	08/07/2015		S(2)	79	D	$ 153.66	246,758	D	
Common Stock	08/07/2015		S(2)	237	D	$ 154.59 (21)	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 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 Underlying Securities (Instr. 3 and 4)		8 D S (I
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option (right to buy)	$ 2.0864	08/07/2015		M			6,056	(22)	07/13/2021	Common Stock	6,056	
Stock Option (right to buy)	$ 2.0864	08/07/2015		M			28,511	(23)	06/04/2022	Common Stock	28,511	
Stock Option (right to buy)	$ 5.5004	08/07/2015		M			90,433	(24)	01/16/2023	Common Stock	90,433	

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	

Signatures

/s/ Jason F. Cole, Attorney-in-Fact	08/11/2015
**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) Includes 272 shares acquired under bluebird bio employee stock purchase plan on July 31, 2015.

(2) 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.

(3) The range of prices for the transaction reported on this line was $130.54 to $130.58. The average weighted price was $130.56. 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.

(4) The range of prices for the transaction reported on this line was $130.72 to $131.61. The average weighted price was $131.12. 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.

(5) The range of prices for the transaction reported on this line was $131.85 to $132.64. The average weighted price was $132.29. 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.

(6) The range of prices for the transaction reported on this line was $132.66 to $133.65. The average weighted price was $133.08. 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.

(7) The range of prices for the transaction reported on this line was $133.74 to $134.74. The average weighted price was $134.24. 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.

(8) The range of prices for the transaction reported on this line was $134.95 to $135.91. The average weighted price was $135.51. 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.

(9) The range of prices for the transaction reported on this line was $135.92 to $136.92. The average weighted price was $136.33. 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.

(10) The range of prices for the transaction reported on this line was $140.00 to $140.79. The average weighted price was $140.36. 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.

(11) The range of prices for the transaction reported on this line was $140.82 to $141.82. The average weighted price was $141.32. 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.

(12) The range of prices for the transaction reported on this line was $141.87 to $142.87. The average weighted price was $142.35. 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.

(13) The range of prices for the transaction reported on this line was $142.90 to $143.89. The average weighted price was $143.35. 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.

(14) The range of prices for the transaction reported on this line was $143.91 to $144.90. The average weighted price was $144.40. 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.

(15) The range of prices for the transaction reported on this line was $145.00 to $146.00. The average weighted price was $145.36. 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.

(16) The range of prices for the transaction reported on this line was $146.16 to $147.11. The average weighted price was $146.81. 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.

(17) The range of prices for the transaction reported on this line was $147.81 to $148.59. The average weighted price was $148.30. 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.

(18) The range of prices for the transaction reported on this line was $149.04 to $149.61. The average weighted price was $149.29. 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.

(19) The range of prices for the transaction reported on this line was $150.00 to $151.00. The average weighted price was $150.38. 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.

(20) The range of prices for the transaction reported on this line was $151.01 to $152.01. The average weighted price was $151.67. 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.

(21) The range of prices for the transaction reported on this line was $154.32 to $154.75. The average weighted price was $154.59. 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.

(22) This option vests over a four-year period, at a rate of twenty-five percent (25%) on April 15, 2012 and in 36 equal monthly installments thereafter

(23) 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.

(24) 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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.
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