FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washir

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

gton, D.C. 20549	OMB APPROVAL

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	OMB Number:	3235-0287							
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l	hours per response:	0.5							

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

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* <u>Davidson David</u>							2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									all appli Directo	cable) or		ssuer Owner (specify	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET							3. Date of Earliest Transaction (Month/Day/Year) 05/15/2015									Officer (give title below) Chief Medical Officer				
(Street) CAMBRIDGE MA 02141							4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)		(Stat	<u> </u>	(Zip)																
1. Title of Security (Instr. 3)				2. Transaction	. Transaction		2A. Deemed Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an		d (A) or	5. Amount of Securities Beneficially Owned Followi		unt of ies :ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
										Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common	Stock				05/15/20)15				M		2,000	Α	\$2.0)9	2	,000	D		
Common Stock				05/15/20)15				S ⁽¹⁾		648	D	\$153.0	153.0397 ⁽²⁾		,352	D			
Common Stock				05/15/2015				S ⁽¹⁾		509	D	\$153.8	\$153.8387 ⁽³⁾		843					
Common Stock 05				05/15/20)15				S ⁽¹⁾		508	D	\$155.0185(4)		335		D			
Common Stock 05/15/20)15	5			S ⁽¹⁾		227	D	\$155.8976 ⁽⁵⁾		-	108					
Common Stock 05/1				05/15/20)15				s ⁽¹⁾ 45		45	D	\$157.2293 ⁽⁶⁾		63		D			
Common Stock				05/15/20	015				S ⁽¹⁾		48	D	\$158.1883 ⁽⁷⁾		15		D			
Common Stock 05/15/201)15	.5			S ⁽¹⁾		15	D	\$159	.26	0		D		
			٦	Table								sposed o				wned				
Derivative Conversion Date Execution Date, or Exercise (Month/Day/Year) if any				5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expir	te Exe ration I th/Day		Amour Securi Under Deriva	7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		Price of erivative curity str. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownersh Form: Direct (D or Indirect (I) (Instr.	Beneficial Ownership (Instr. 4)					
			Code	v	(A) (D)		Date Exercisable		Expiration Date	Title	Numb of Share									

Explanation of Responses:

\$2.09

05/15/2015

Stock Option

buy)

(right to

- 1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on January 14, 2015.
- 2. The range of prices for the transaction reported on this line was \$152.50 to \$153.50. The average weighted price was \$153.0397. 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. The range of prices for the transaction reported on this line was \$153.51 to \$154.50. The average weighted price was \$153.8387. 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 \$154.52 to \$155.52. The average weighted price was \$155.0185. 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 \$155.53 to \$156.25. The average weighted price was \$155.8976. 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 \$157.00 to \$157.60. The average weighted price was \$157.2293. 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 \$158.10 to \$158.27. The average weighted price was \$158.1883. 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. This option vests over a four-year period, at a rate of twenty-five percent (25%) on February 13, 2013 and in 36 equal monthly installments thereafter.

Remarks:

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

2,000

Stock

05/19/2015

** Signature of Reporting Person

Date

- * 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.