FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHAN	NGES IN BE	NEFICIAL (OWNERSHIP

l	OMB APPRO	VAL
	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

Name and Address of Reporting Person* Davidson David (Last) (First) (Middle)					<u>bl</u> ı	Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE] Date of Earliest Transaction (Month/Day/Year)									tionship of Reporting all applicable) Director Officer (give title below)		-	10% Other (below)	wner
C/O BLUEBIRD BIO, INC. 150 SECOND STREET						05/16/2016 Chief Medical Officer													
(Street) CAMBRIDGE MA 02141					_ 4. l	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Line) X Form filed by One Reporting Perform filed by More than One Reperson					rson
(City)	(S	tate) ((Zip)																
		Tab	le I - 1	Non-Deri	vative	e Sec	uriti	ies A	cquired	d, D	isposed o	of, or B	enefic	ally	Owned	k			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye				Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an			Benefic Owned		es ially Following	Forn (D) o	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount	(A) or (D)	Price			action(s) 3 and 4)			(Instr. 4)		
Common Stock 05/16/201					016	16			M		1,000	A	\$2.0	.09 10		,600		D	
Common Stock 05/16/201					016				S ⁽¹⁾		1,000	D	\$38.72	93(2)	3 ⁽²⁾ 9,600			D	
		Т	able								sposed of , converti				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	eemed tion Date, n/Day/Year)		ransaction ode (Instr.		wative urities uired or oosed O) tr. 3, 4	6. Date Exerc Expiration Da (Month/Day/\)		ate	7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		De Se (In	Price of rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amour or Number of Shares	er					
Stock Option (right to buy)	\$2.09	05/16/2016			M			1,000	(3)		04/13/2022	Common Stock	n 1,00	0	\$0.00	33,239		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 January 14, 2015.
- 2. The range of prices for the transaction reported on this line was \$38.37 to \$39.02. The average weighted price was \$38.7293. 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 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-

05/18/2016

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.