## FORM 4

Check this box if no longer subje Section 16. Form 4 or Form 5

obligations may continue. See Instruction 1(b).

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

ct to	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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)     C/O BLUEBIRD BIO, INC.					<u>bl</u> ı	Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]  3. Date of Earliest Transaction (Month/Day/Year) 06/15/2016									tionship of Reporting Person(s) to Issuer all applicable)  Director 10% Owner  Officer (give title Other (specify below) below)  Chief Medical Officer			
(Street)	OND STRI		02141		_ 4. Ii	4. If Amendment, Date of Original Filed (Month/Day/Year)								ne) <mark>X</mark> For	or Joint/Grou m filed by Or m filed by Mo	ne Rep	orting Perso	on
(City)	(S	tate)	(Zip)															
		Tab	le I - N	on-Deriv	ative	Sec	uriti	ies Ac	quire	d, Di	sposed o	of, or Be	eneficia	lly Own	ed			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da				Exed if an	2A. Deemed Execution Date, if any (Month/Day/Year)				4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a			5) Secu Bene	ficially ed Following	Forr (D)	n: Direct	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price	Trans	action(s) 3 and 4)			(Instr. 4)
Common	mon Stock 06/15/2			2016	)16			М		1,000	A	\$2.0	9	10,600		D		
Common	Stock			06/15/	2016				S <sup>(1)</sup>		1,000	D	\$40.11	2(2)	9,600 D			
		7	able II								posed of converti				t			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		if any	med on Date, Day/Year)	4. Transa Code ( 8)		ı of		6. Date Exerci Expiration Da (Month/Day/Yo		ite	7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		8. Price Derivativ Security (Instr. 5)		e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares					
Stock Option (right to	\$2.09	06/15/2016			M			1,000	(3)		04/13/2022	Common Stock	1,000	\$0.00	32,23	39	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 \$40.00 to \$40.31. The average weighted price was \$40.1120. 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-

06/16/2016

**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.