FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per respons	o: 0 F								

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]								elationship o ck all applic Director	able)	g Perso	10% Ov	vner	
	(F JEBIRD B OND STR		(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 03/03/2014							below)	Officer (give title below) Chief Medical (pecify	
(Street)				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person					
(City)		State)	(Zip)		-										Form filed by More than One Reporting Person			
		Ta	ble I - No	n-Deri	ivativ	ve Se	ecuritie	s Acc	quired	, Dis	posed of	, or Ben	eficially	/ Owned				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					saction	ction 2A. Deemed Execution Date,		3. 4. Securities		es Acquired (A) or Of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	Transact	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common Stock 03/03/2					3/201	2014		М		8,000	A	\$2.09	8,0	000		D		
Common Stock 03/03/2					3/201	2014		S ⁽¹⁾		8,000	D	\$24.79	2)	0		D		
			Table II -								osed of, convertib			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	4. Transa Code (I 8)		Derivati Securiti Acquire or Dispo of (D) (II	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 an of Securit Underlyin Derivative (Instr. 3 an	g Security	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported	e s illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares		Transacti (Instr. 4)			
Stock Option (right to buy)	\$2.09	02/03/2014			М			8,000	(3)		04/13/2022	Common Stock	8,000	\$0.00	111,23	39	D	
Stock Option (right to buy)	\$24.47	03/03/2014			A		65,000		(4)		03/03/2024	Common Stock	65,000	\$0.00	65,00	0	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 October 14, 2013.
- 2. The range of prices for the transaction reported on this line was \$24.05 to \$25.40. The average weighted price was \$24.785. 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.
- 4. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 1, 2015 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Linda C. Bain, Attorney-in-

Fact

** Signature of Reporting Person

Date

03/05/2014

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.