FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL												
OMB Number:		3235-028										

37 Estimated average burden 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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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Name and Address of Reporting Person* Davidson David						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								Relationship heck all app Direct	icable) or	g Pers	10% O	wner	
	JEBIRD B	IO, INC.	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 10/01/2014									Officer (give title below) Chief Medical Officer				
150 SECOND STREET (Street) CAMBRIDGE MA 02141							4. If Amendment, Date of Original Filed (Month/Day/Year)								ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)			(Zip)																
		Tab	le I - No	on-Deriv	ative	Sec	uriti	ies Ac	quired	I, Di	sposed c	of, or Be	neficia	Ily Owne	d 				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Exe) if a	A. Deemed kecution Date, any lonth/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			Benefic	ies ially Following	Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Transa (Instr. 3	tion(s)			(Instr. 4)	
Common Stock 10/01/20						014			M		3,000	A	\$2.0	9 3	,000		D		
Common Stock 10/01/20					2014	014			S ⁽¹⁾		3,000	D	\$34.5	5(2)	0		D		
		Т	able II								osed of converti			y Owned			,		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year	3A. Deer Execution if any (Month/E	n Date,	4. Transactior Code (Instr. 8)		on of		6. Date Exercis Expiration Date (Month/Day/Yea		te	7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Seneficiall Owned Following Reported Transactio (Instr. 4)	ly C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	ıble	Expiration Date	Title	Amount or Number of Shares						
Stock Option (right to	\$2.09	10/01/2014			M			3,000	(3)		04/13/2022	Common Stock	3,000	\$0.00	88,239		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 October 14, 2013.
- 2. The range of prices for the transaction reported on this line was \$33.83 to \$36.00. The average weighted price was \$34.5545. 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-10/03/2014 **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.