FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, [D.C. 20549
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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

OMB APPROVAL							
OMB Number:	3235-0287						
Estimated average b	urden						
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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* Vachon Mark					2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									eck all appli Directo	onship of Reporting II applicable) Director		10% O\	ner	
l .	JEBIRD B	IO, INC.	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 06/02/2016									Officer (give title below)		Other (s below)		specify
(Street)	COND STRI		02141		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	dividual or Joint/Group Filing (Check Applicable) K Form filed by One Reporting Person Form filed by More than One Reporting				
(City)	(S	tate)	(Zip)		-										Perso	n			
		Tab	le I - Non	-Deriv	ative	Se	curitie	s Ac	quired,	Dis	posed o	of, or E	Benef	ficiall	y Owned	t			
Date				2. Trans Date (Month/		ay/Year) 2A. Deemed Execution Date, if any (Month/Day/Year)			Code					5. Amou Securiti Benefici Owned I Reporte	es ally Following	Form (D) o	n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	Amount (A) or (D)		Price	Transac	ansaction(s) str. 3 and 4)			(iiisti. 4)
Common Stock ⁽¹⁾			06/02	2/2016	2/2016		A		1,000 A		A	\$0.00	1,000			D			
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Day/Year) Execution Date, if any (Month/Day/Year) Say			5. Num of Deriva Securi Acquii (A) or Dispos of (D) (Instr. and 5)	itive ities red sed 3, 4	Expiration	Date Exercisable and piration Date onth/Day/Year) 7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			curity	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisal		xpiration ate	Title	or Nu of	mber ares					
Stock Option (right to buy)	\$47.87	06/02/2016			A		4,000		(2)	0	6/02/2026	Commo Stock		,000	\$0.00	4,000)	D	

Explanation of Responses:

- 1. These restricted stock units for common stock vest 100% on the earlier of June 2, 2017, or the date of the next annual meeting of stockholders.
- 2. This option vests 100% on the earlier of June 2, 2017, or the date of the next annual meeting of stockholders.

Remarks:

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

Fact

** Signature of Reporting Person

Date

06/03/2016

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.