FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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* Mandell James						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]										k all ap _l	ip of Reporting Person(s) to Issur plicable) ctor 10% Owne						
(Last) (First) (Middle)							3. Date of Earliest Transaction (Month/Day/Year) 02/15/2017										Director Officer (give title below)			(specify			
	JEBIRD BI COND STRI				4. 1	If Am	endme	ent, D	ate	e of Origi	nal F	Filed (Month	/Day/Yea	ır)	6. Ind Line)	ividual d	or Joint/Group	p Filii	ng (Check A	Applicable			
(Street) CAMBRIDGE MA 02141																Form	Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(Si	tate) (Zip)																				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																							
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/					ear) i	2A. Deemed Execution Date, if any (Month/Day/Year)				3. Transacti Code (Ins 8)		4. Securiti Disposed		and 5) Secu Bene Own			For (D) Ind	irect (I)	7. Nature of Indirect Beneficial Ownership				
						Code	v	Amount	(A) or (D)	Price		Repo	Following Reported Transaction(s) (Instr. 3 and 4)		str. 4)	(Instr. 4)							
Common	17				T	M		1,050	A	A \$25		6 2,050			D								
Common	Stock			02/15/201	17				T	S ⁽¹⁾		1,050	D	\$80.2	2236 ⁽²⁾ 1,000 D								
		Ta	able	II - Deriva (e.g., p								posed of convert				wned							
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if an	Deemed cution Date, ny nth/Day/Year)	4. Trans Code 8)		r. of Dei Sec (A) Dis of (Number				ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		of Der Sec (Ins	rice ivative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	.	(A)) (0)))	Date Exercisa	ble	Expiration Date	Title	Amour or Number of Shares	er								
Stock Option (right to buy)	\$25.16	02/15/2017			М		1,0)50		(3)		06/11/2024	Commor Stock	1,050)	\$0.00	4,500		D				

Explanation of Responses:

- 1. This sales reported in the Form 4 were effectd pursuant to a 10b5-1 trading plan adopted by the reporting person on December 13, 2016.
- 2. The range in prices for the transaction reported on this line was \$80.00 to \$80.50. The average weighted price was \$80.2236. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. This option vests 100% on the earlier of June 11, 2015 or the date of the next annual meeting of stockholders.

Remarks:

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

02/17/2017

** 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.