## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

STATEMENT	OF CHANGES	S IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
l	Estimated average burde	en
l	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)

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*  Mandell James						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]									tionship all appli Directo	or 10% Own				
	(F JEBIRD BI OND STRI	O, INC.	(Middle	e)		3. Date of Earliest Transaction (Month/Day/Year) 09/01/2015									Officer (give title below)		Other (sp below)		pecify	
(Street) CAMBRIDGE MA 02141					-   4. I -	4. If Amendment, Date of Original Filed (Month/Day/Year)								. Indiv ine) X	,					
(City)	(S	-	(Zip)		<u> </u>															
Table I -		le I -	2. Transaction Date (Month/Day/	on	2A. Deemed Execution Da		med on Date,					(A) or		5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	ect ( irect (	7. Nature of Indirect Beneficial Ownership		
							Ī	Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
Common	ommon Stock 09/01/201		)15	5			М		1,500	A	\$21.4	<b>4</b> 3		,500	D					
Common	Stock			09/01/201		5			S <sup>(1)</sup>		642	D	\$125.16	166(2)		358	D			
Common	ommon Stock 09/01/201			)15	.5			S <sup>(1)</sup>		715	D	\$126.43	126.4367 <sup>(3)</sup>		143					
Common Stock 09/01/20			)15	15			S <sup>(1)</sup>		143	D	\$127.1246(4)		(4) 0		D					
		Т	able								sposed of				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		Execu	eemed ution Date,	4. Transa	4. Transaction Code (Instr.		iber tive ties ed sed	6. Date Exer Expiration I (Month/Day		cisable and	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. De Se (In	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownersh Form: y Direct (D or Indire (I) (Instr.	n: ct (D) direct	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amoun or Numbe of Shares	per						
Stock Option (right to	\$21.43	09/01/2015			M		1,500		(	5)	01/08/2024	Commo Stock	n 1,500		\$0.00	17,000		D		

## **Explanation of Responses:**

- $1.\ This sales \ reported in the Form \ 4 \ were \ effectd \ pursuant \ to \ a \ 10b5-1 \ trading \ plan \ adopted \ by \ the \ reporting \ person \ on \ July \ 8, \ 2015.$
- 2. The range in prices for the transaction reported on this line was \$125.00 to \$125.96. The average weighted price was \$125.1660. 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. The range in prices for the transaction reported on this line was \$126.00 to \$126.67. The average weighted price was \$126.4367. 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.
- 4. The range in prices for the transaction reported on this line was \$127.07 to \$127.22. The average weighted price was \$127.1246. 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.
- 5. This option vests ratably over three years in annual installments, commencing on January 8, 2014.

## Remarks:

/s/ Jason F. Cole, Attorney-in-09/03/2015 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.