FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OV	WNERSHIP

OMB APPRO	OVAL						
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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* Mandell James						bluebird bio, Inc. [BLUE]									all applicable) Director		g Per	10% O	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC.						3. Date of Earliest Transaction (Month/Day/Year) 02/15/2017									Officer below)	(give title		Other (below)	specify
150 SECOND STREET						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)														X	Form 1	filed by One	Rep	orting Perso	on
CAMBRIDGE MA 02141					_										Form filed by More than One Reporting Person				orting
(City)	(S	tate)	(Zip)																
		Tab	le I - I	Non-Deri	vative	e Sec	uritie	s A	cquire	d, D	isposed (of, or E	enefic	ially	Owned	t			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yell)					Execution Date,						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	Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)
Common Stock 02/15/201					017	17		M		1,050	A	\$25	.16	2,050			D		
Common Stock 02/15/201					017	17		S ⁽¹⁾		1,050	D	\$80.2	80.2236(2)		1,000		D		
		Т	able								sposed of , converti				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	eemed tion Date, n/Day/Year)	4. Transa Code (8)				6. Date Exerc Expiration D (Month/Day/		ate	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		De Se (Ir	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ov Fo Dii or (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amor or Numl of Share	ber					
Stock Option (right to	\$25.16	02/15/2017			M		1,050		(3)		06/11/2024	Commo Stock	n 1,05	50	\$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-02/17/2017 **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.