FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

wasnington,	D.C.	20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours por rosponso:	0.5							

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* MARAGANORE JOHN						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								Relationship leck all app X Direc	icable)	ig Pers	son(s) to Iss 10% Ov			
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC.					3. Date of Earliest Transaction (Month/Day/Year) 03/03/2017									er (give title v)		Other (s below)	specify			
150 SECOND STREET					4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)														X Form filed by One Reporting Person						
CAMBRIDGE MA 02141				_										Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)																	
		Tak	le I - I	Non-Der	ivativ	e Sec	curiti	es A	cquire	ed, D	isposed o	f, or B	eneficial	ly Owne	d					
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/N				Execution D		Date,	3. Transaction Code (Instr. 8)					Securi Benefi Owned	cially I Following	Form (D) o	Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
								Code	v	Amount	(A) or (D)	Price	Transa	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)			
Common Stock 03/03/20				2017	17			M		922	A	\$0.948	4 !	5,765		D				
Common Stock 03/03/2			2017	.7			M	П	12,917	A	\$5.5004		8,682		D					
Common Stock 03/03/20				2017	17		S		13,839	D	\$85.0239)(1)	4,843		D					
		-	Table								posed of, convertil			Owned						
Derivative Conversion Date Executive Or Exercise (Month/Day/Year) if an		if any	tion Date, Trar		ssaction of Deriv. Secur Acquir (A) or Dispo of (D) 3, 4 an		rative rities iired r osed) (Instr.	es d Expiration (Month/Day			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price o Derivative Security (Instr. 5)		e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amount or Number of Shares							
Stock Option (right to buy)	\$0.9484	03/03/2017			M			922	(2	2)	11/18/2020	Commor Stock	922	\$0.00	0		D			
Stock Option (right to	\$5.5004	03/03/2017			M			12,917	(3	3)	01/16/2023	Commor Stock	12,917	\$0.00	0		D			

Explanation of Responses:

- 1. The range in prices for the transaction reported on this line was \$84.50 to \$85.35. The average weighted price was \$85.0239. 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.
- 2. This option vests over a one-year period, at a rate of twenty-five percent (25%) on December 6, 2010, 25% on March 6, 2011, 25% on June 6, 2011, and 25% on September 6, 2011.
- 3. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 16, 2014 and in 36 equal monthly installments thereafter.

Remarks:

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

03/06/2017

Fact

** Signature of Reporting Person

Date

 $Reminder: Report \ on \ a \ separate \ line \ for \ each \ class \ of \ securities \ beneficially \ owned \ directly.$

- * 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.