FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
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0.5

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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

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 of Reporting Person(s) to Issue (Check all applicable) X Director 10% Owner						
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC.					3. Date of Earliest Transaction (Month/Day/Year) 12/20/2016											Office	er (give title v)		Other (specify below)	
150 SECOND STREET (Street) CAMBRIDGE MA 02141					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(:		(Zip) le I - Nor	n-Deriv	ative	Se	curitie	s Aca	uired.	Disi	posed o	of. or	Bene	eficia	ally O	wne	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					action 2A. De Execu Day/Year) if any		2A. Deemed Execution Date,		3. 4. Securit Transaction Disposed Code (Instr. 5)		rities Acquired (A) ed Of (D) (Instr. 3,			o) or 5.4 and S		ount of ties cially I Following	6. Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Ownership		
									Code	v	Amount		(A) or (D)	Price	т	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common Stock 12/20/					0/2016				G	V	1,450		D	\$0.	0.00		843(1)	D		
		Та	able II - I)								sed of, onvertib				y Ow	ned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/Yo	Date,	Code (Instr.		n of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3	8. Price Deriva Securi (Instr.	vative urity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)		Date Exercisal		Expiration Date	Title	or Nun of							

Explanation of Responses:

1. Takes into account 5,293 shares previously acquired and included on the Form 4 filed on December 22, 2014 by the reporting person.

Remarks:

/s/ Jason F. Cole, Attorney-in-01/23/2017

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.