FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
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0.5

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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]										all app Direc	onship of Reporting P Il applicable) Director		10% C	wner	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC.						3. Date of Earliest Transaction (Month/Day/Year) 12/19/2014										Offic belov	ficer (give title low)		Other (specify below)		
150 SECOND STREET						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) CAMBRIDGE MA 02141															X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(St	ate) (Zip)																		
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D						Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disp Code (Instr. 5)		urities Acquired (A sed Of (D) (Instr. 3,			nd	5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
						Code	v	Amount		(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)				(1130.4)				
Common Stock 12/19/									P		2,352		A \$8		5,293		5,293	I)		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
1. Title of Derivative Security (Instr. 3)	erivative Conversion Date Execution Date, I cecurity or Exercise (Month/Day/Year) if any				4. Transaction Code (Instr. 8)			ative rities ired osed	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)					9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4		Beneficial Ownership (Instr. 4)	
						Code V (A)		(D)	Date Exercisal		Expiration Date	Amoun or Numbe of Title Shares		nber							

Explanation of Responses:

1. These shares were purchased from the underwriters in the public offering that closed on December 19, 2014.

Remarks:

/s/ Jason F. Cole, Attorney-in-12/22/2014

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.