bluebird bio, Inc. Form 4 July 30, 2015

FORM 4

OMB APPROVAL

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB Number: 3235-0287

Check this box if no longer subject to Section 16. Form 4 or January 31,

N. DENIEFICIAL OWNIEDSHIP OF 2005

Estimated average burden hours per response... 0.5

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Form 5 obligations may continue. See Instruction See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * GILLIS STEVEN			2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(Shock all applicable)				
C/O ARCH PARTNERS ROAD, SUI	s, 8725 WES	T HIGGINS	(Month/Day/Year) 07/28/2015	X Director 10% Owner Officer (give title below) Other (specify below)				
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check				
CHICAGO,	IL 60631		Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	Table I. Non Dominatine Committee Acc	wind Dimend of an Daneficially Owned				

` •	` '	` 1' I abi	e I - Non-De	rivative Sec	uriue	s Acqui	irea, Disposea oi	, or Beneficiali	y Ownea	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)		
Common Stock	07/28/2015		<u>J(1)</u>	233,000	D	(1)	90,675	I	By ARCH Venture Fund VII, L.P. (2) (3)	
Common Stock	07/28/2015		J(1)(3)	5,126	A	<u>(1)</u>	18,633	D		

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

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number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	onNumber	Expiration Date		Amour	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underl	ying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr. :	3 and 4)		Owne
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
									Amount		
						Date	Expiration		or Namel		
						Exercisable	Date		Number		
				C 1 W	(A) (D)				of		
				Code V	(A) (D)			,	Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

GILLIS STEVEN
C/O ARCH VENTURE PARTNERS
8725 WEST HIGGINS ROAD, SUITE 290
CHICAGO, IL 60631



Signatures

/s/ Steven Gillis 07/30/2015

**Signature of Person Date

Reporting Person

Explanation of Responses:

- * 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).
- (1) Distribution of Common Stock held by a limited partnership to its partners for no consideration.

These shares are owned directly by ARCH Venture Fund VII, L.P. ("ARCH Fund VII"). The sole general partner of ARCH Fund VII is ARCH Venture Partners VII, L.P. ("ARCH Partners VII"). The sole general partner of ARCH Partners VII is ARCH Venture Partners VII, LLC ("ARCH VII LLC"). The Managing Directors of ARCH VII LLC, Robert T. Nelsen, Keith Crandell and Clinton Bybee, are

- (2) deemed to have voting and dispositive power over the shares and may be deemed to beneficially own shares held by ARCH Fund VII. Each Managing Director disclaims beneficial ownership of these securities, except to the extent of his pecuniary interest therein, and this report shall not be deemed an admission that such Managing Director is the beneficial owner of such securities for Section 16 or any other purpose.
- Change from indirect to direct ownership of shares previously reported as beneficially owned by the reporting person. Steven Gillis owns an interest in ARCH Partners VII but does not have voting or investment control over the shares held by ARCH Fund VII and disclaims beneficial ownership of such shares, except to the extent of any pecuniary interest therein, and this report shall not be deemed an admission that Steven Gillis is the beneficial owner of such securities for Section 16 or any other purpose.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Reporting Owners 2

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