FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
vvasilington,	D.C.	20040

STATEMENT	OF CHAN	GES IN BEN	IEFICIAL O	WNERSHIP

OMB APPROVAL									
OMB Number: 3235-0287									
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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)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Obenshain Andrew						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]							(Che	Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last)	(I JEBIRD B	First) IO, INC.	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 03/01/2024						X	below)	give title President	t and	Other (s below) CEO	pecify	
455 GRAND UNION BOULEVARD				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) SOMER	VILLE N	ИΑ	02145										X	X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(?	State)	(Zip)		R	lule	10b5-	1(c)	Tran	sac	tion Ind	ication						
					X Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.							to satisfy						
		Та	ble I - N	on-Der	ivativ	ve Se	ecurities	s Ac	quirec	d, Di	sposed o	of, or Be	neficially	Owned				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day				Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				and 5) Securities Beneficia Owned Fo		s Form ally (D) o following (I) (In		7. Nature of Indirect Beneficial Ownership				
										v	Amount	(A) or (D)	Price	Transacti	Reported Transaction(s) (Instr. 3 and 4)		[Instr. 4)
Common Stock 03/04/2				1/2024	2024 S ⁽¹⁾ 6,095 D \$1.5		\$1.5276	276 ⁽²⁾ 279,998 D										
	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)	Derivative Conversion Date Execution Date, Gecurity or Exercise (Month/Day/Year) if any			5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		e s i (A) sed str.	6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and Amof Securities Underlying Derivative Secu (Instr. 3 and 4)			ies g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	e s illy	Ownership of Indir Form: Benefic Direct (D) Owners	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
							Code	Date Exercisa	able	Expiration Date Title		Amount or Number of Shares			(Instr. 4)			
Stock Option (right to buy)	\$1.56	03/01/2024			A		650,000		(3)		03/01/2034	Common Stock	650,000	\$0.00	650,00	00	D	

Explanation of Responses:

- 1. Shares were sold to cover tax withholding obligations incurred in connection with the vesting of Restricted Stock Units.
- 2. The range in prices for the transaction reported on this line was \$1.52 to \$1.55. The average weighted price was \$1.5276. 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 stock option will vest over a four-year period at the rate of 25% on the first anniversary of March 1, 2024, and then in equal monthly installments for the remaining 36 months.

Remarks:

/s/ Sydney Gaylin, Attorney-in-03/05/2024 Fact for Andrew Obenshain

** Signature of Reporting Person

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.

The undersigned hereby constitutes and appoints each of Joseph Vittiglio, Sydney Gaylin and Christopher Krawtschuk, and each of them individually, and with full power of substitution, the undersigned's true and lawful attorney-in-fact to:

- (1) Complete and execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or ten percent (10%) shareholder of bluebird bio, Inc., a Delaware corporation (the "Company") any and all instruments, certificates and documents required to be executed on behalf of the undersigned as an individual or on behalf of the undersigned's company or partnership, as the case may be, pursuant to Section 13 and Section 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act") or the rules and regulations thereunder;
- (2) Do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such instruments, certificates or documents required to be filed pursuant to Sections 13 and 16 of the Exchange Act or the rules or regulations thereunder and timely file such forms with the United States Securities and Exchange Commission and any stock exchange or similar authority; and
- (3) Take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by any such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact, acting singly, full power and authority to do and perform any and every act which is necessary, proper or desirable to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that any such attorney-in-fact, or any such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this Power of Attorney and the rights and powers herein granted.

The undersigned acknowledges that each of the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 13 or Section 16 of the Exchange Act or the rules or regulations thereunder. The undersigned hereby agrees to indemnify each attorney-in-fact and the Company from and against any demand, damage, loss, cost or expense arising from any false or misleading information provided by the undersigned to such attorney-in fact.

This Power of Attorney shall remain in full force and effect until the earliest to occur of (a) the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigned's holdings of and transactions in securities issued by bluebird bio, Inc., (b) revocation by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact, or (c) as to any attorney-in-fact individually, until such attorney-in-fact is no longer employed by bluebird bio, Inc.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of August 10, 2023.

/s/ Andrew Obenshain Andrew Obenshain