FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

			or Sec	ction 30(h) of	the Investment Company Ac	ct of 1940					
1. Name and Address of Reporting Person* <u>Casdin Capital, LLC</u>			2. Date of Requiring (Month/Da 03/20/20	Statement ay/Year)	3. Issuer Name and Ticker or Trading Symbol 2seventy bio, Inc. [TSVT]						
(Last) 1350 AVE	(First) NUE OF THE	(Middle) E AMERICA	S		4. Relationship of Reportir Issuer (Check all applicable)			5. If Amendment, Date of Original Filed (Month/Day/Year)			
SUITE 2600			_		X Director Officer (give title below)	10% O Other (below)	specify	6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting			
(Street) NEW YORK	NY	10019						X	Person Form filed I Reporting I	by More than One Person	
(City)	(State)	(Zip)									
		٦	Гable I - No	n-Derivat	tive Securities Benef	icially O	wned				
1. Title of Security (Instr. 4)				2. Amount of Securities Beneficially Owned (Instr. 4)	3. Owner Form: D (D) or Ir (I) (Insti	irect Ownership (Instr. 5)					
Common Stock, par value \$0.0001 per share					1,182,623		[See footnote ⁽¹⁾			
Common Stock, par value \$0.0001 per share ⁽²⁾				16,600	D	3)					
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)											
) E			2. Date Exerc Expiration Day/Y	ate	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise		5. Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr.	
			Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)	5)		
Stock Optio	ons (Right to b	ouy)	(4)	03/20/2034	Common Stock, par value \$0.0001 per share	33,400	4.5	4	D ⁽³⁾		
Total Return	n Swap		(5)	(5)	Common Stock, par value \$0.0001 per share	599,935	(5)		I	See footnote ⁽¹⁾	
	Address of Reportal, LLC	-									
(Last) 1350 AVE SUITE 260	(First) NUE OF THE	,	liddle) S								

(Last) (First) (Middle)

1350 AVENUE OF THE AMERICAS

SUITE 2600

(Street)

NEW YORK NY 10019

(City) (State) (Zip)

1. Name and Address of Reporting Person*

Casdin Partners Master Fund, L.P.

(Last) (First) (Middle)

1350 AVENUE OF THE AMERICAS SUITE 2600									
(Street) NEW YORK	NY	10019							
(City)	(State)	(Zip)							
1. Name and Address of Reporting Person* <u>Casdin Partners GP, LLC</u>									
(Last)	(First)	(Middle)							
1350 AVENUE OF THE AMERICAS SUITE 2600									
(Street) NEW YORK	NY	10019							
(City)	(State)	(Zip)							
Name and Address of Reporting Person* Casdin Eli									
(Last) (First) (Middle) 1350 AVENUE OF THE AMERICAS SUITE 2600									
(Street) NEW YORK	NY	10019							
(City)	(State)	(Zip)							

Explanation of Responses:

- 1. The securities are owned directly by Casdin Partners Master Fund, LP (the "Master Fund") and may be deemed to be indirectly beneficially owned by (i) Casdin Capital, LLC, the investment adviser to the Master Fund, (ii) Casdin Partners GP, LLC, the general partner of the Master Fund, and (ii) Eli Casdin, the managing member of Casdin Capital, LLC and Casdin Partners GP, LLC.
- 2. This restricted stock unit award vests ratable over three years in annual installments with the first installment vesting on March 20, 2025, subject to the Reporting Person's continued service through the applicable vesting date.
- 3. The securities are owned directly by Eli Casdin.
- 4. This stock option vests ratably over three years in annual installments with the first installment vesting on March 20, 2025, subject to the Reporting Person's continued service through the applicable vesting date.
- 5. The Master Fund has entered into certain cash-settled total return swap agreements (the "Swap Agreements"), which represent economic exposure to an aggregate of 599,935.15 notional shares of the Issuer's Common Stock, par value \$0.0001 per share. The Swap Agreements provide the Master Fund with economic results that are comparable to the economic results of ownership but do not provide it with the power to vote or direct the voting or dispose of or direct the disposition of the securities that are referenced by the Swap Agreements.

Remarks

Eli Casdin has been deputized to represent the Reporting Persons on the board of directors of the Issuer. By virtue of Mr. Casdin's representation, for purposes of Section 16 of the Securities Exchange Act of 1934 (the "Exchange Act"), each of the Reporting Persons may be deemed directors by deputization of the Issuer. Each Reporting Person disclaims beneficial ownership in the securities reported on this Form 3 except to the extent of its or his pecuniary interest, if any, therein, and this report shall not be deemed to be an admission that such Reporting Person is the beneficial owner of such securities for purposes of Section 16 or for any other purpose.

Casdin Capital LLC, By: /s/ Eli Casdin, Managing 03/25/2024 Member Casdin Partners Master Fund, LP, By: Casdin Partners GP, LLC, its General Partner, By: /s/ Eli Casdin, Managing Member Casdin Partners GP LLC. By: /s/ Eli Casdin. 03/25/2024 Managing Member /s/ Eli Casdin, Eli Casdin 03/25/2024 ** Signature of Reporting Date 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 5 (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 Number.	displays a currently valid OMB