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

1. Name and Address of Reporting Person*  Townsend Richard Nolan			2. Date of Requiring (Month/Da 11/02/20	Statement ay/Year)	3. Issuer Name and Ticker or Trading Symbol  Lexeo Therapeutics, Inc. [ LXEO ]					
(Last) (First) (Middle) C/O LEXEO THERAPEUTICS, INC.  345 PARK AVENUE SOUTH, FLOOR 6  (Street) NEW YORK NY 10010  (City) (State) (Zip)				4. Relationship of Reporting Person(s) Issuer (Check all applicable)  X Director 10% Ov  X Officer (give Other (s title below) below)  Chief Executive Officer		wner	5. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person			
Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4)				2. Amount of Securities Beneficially Owned (Instr. 4)	3. Owner Form: D (D) or In (I) (Instr	Direct Owner of the Country of the C		uture of Indirect Beneficial ership (Instr. 5)		
Common Stock					126,945	D	)			
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)										
, E			2. Date Exercisable and Expiration Date (Month/Day/Year)		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)	
Employee S buy)	Stock Option (r	ight to	(1)	02/15/2031	Common Stock	153,655	2.33		D	
Employee S buy)	Stock Option (r	ight to	(2)	11/14/2031	Common Stock	519,150	4.87		D	
Employee Stock Option (right to buy)		ight to	(3)	08/21/2033	Common Stock	106,472	11.02	2	D	

### **Explanation of Responses:**

- 1.25% of the shares underlying the option vested on November 21, 2021, and 1/48th of the shares underlying the option vested or shall vest in monthly installments thereafter, subject to the Reporting Person's continuous service.
- 2. 25% of the shares underlying the option vested on August 11, 2022, and 1/48th of the shares underlying the option vested or shall vest in monthly installments thereafter, subject to the Reporting Person's continuous service.
- 3. 25% of the shares underlying the option shall vest on August 22, 2024, and 1/48th of the shares underlying the option shall vest in monthly installments thereafter, subject to the Reporting Person's continuous service.

### Remarks:

Exhibit List - Exhibit 24 - Power of Attorney

/s/ Jenny Robertson, Attorney-in-Fact

11/02/2023

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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 displays a currently valid OMB Number.

#### POWER OF ATTORNEY

(For Executing Form ID and Forms 3, 4 and 5)

Know all by these presents, that the undersigned hereby constitutes and appoints each of Jenny Robertson of Lexeo Therapeutics, Inc. (the "Company") and Dayne Brown and Jason Minio of Cooley LLP, signing individually, the undersigned's true and lawful attorneys-in fact and agents to:

- (1) Prepare, execute in the undersigned's name and on the undersigned's behalf, and submit to the Securities and Exchange Commission (the "SEC"), a Form ID and Forms 3, 4 and 5 (including amendments thereto and joint filing agreements in connection therewith) in accordance with Section 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and the rules thereunder, in the undersigned's capacity as an officer, director or beneficial owner of more than 10% of a registered class of securities of the Company;
- (2) Do and perform any and all acts for and on behalf of the undersigned that may be necessary or desirable to prepare and execute any such Form ID and Forms 3, 4 or 5 (including amendments thereto and joint filing agreements in connection therewith) and file such forms with the SEC and any stock exchange, self-regulatory association or any similar authority; and
- (3) Take any other action of any type whatsoever in connection with the foregoing that, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required of the undersigned, it being understood that the documents executed by the 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 the attorney-in-fact may approve in the attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney in fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper 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 such attorney in fact, or 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 the foregoing attorneys-in-fact, and their substitutes, 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 16 of the Exchange Act.

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 the Company, (b) revocation by the undersigned in a signed writing delivered to the Company and the foregoing attorneys-in fact or (c) as to any attorney-in-fact individually, until such attorney-in-fact is no longer employed by the Company or employed by or a partner at Cooley LLP or another law firm representing the Company, as applicable.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of the date written below.

Date: 9/21/2023 /s/ R. Nolan Townsend R. Nolan Townsend