

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL	
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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* <u>Flagship Pioneering Fund VII General Partner LLC</u> <hr/> (Last) (First) (Middle) 55 CAMBRIDGE PARKWAY, SUITE 800E <hr/> (Street) CAMBRIDGE MA 02142 <hr/> (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 05/27/2022	3. Issuer Name and Ticker or Trading Symbol <u>Evelo Biosciences, Inc. [EVLO]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person <input checked="" type="checkbox"/> 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. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	13,698,630 ⁽¹⁾	I	By Flagship Pioneering Fund VII, L.P. ⁽²⁾

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

1. Name and Address of Reporting Person*
Flagship Pioneering Fund VII General Partner LLC

 (Last) (First) (Middle)
 55 CAMBRIDGE PARKWAY, SUITE 800E

 (Street)
 CAMBRIDGE MA 02142

 (City) (State) (Zip)

1. Name and Address of Reporting Person*
Flagship Pioneering Fund VII, L.P.

 (Last) (First) (Middle)
 55 CAMBRIDGE PARKWAY, SUITE 800E

 (Street)
 CAMBRIDGE MA 02142

 (City) (State) (Zip)

Explanation of Responses:

1. On May 27, 2022, Flagship Pioneering Fund VII, L.P. ("Flagship Fund VII") acquired 13,698,630 shares of the Issuer's Common Stock in registered direct offering at a price of \$1.46 per share.

2. Shares held by Flagship Fund VII. Flagship Pioneering Fund VII General Partner LLC ("Flagship Fund VII GP") is the general partner of Flagship Fund VII. Flagship Pioneering, Inc. ("Flagship Pioneering") is the manager of Flagship Fund VII GP. Noubar B. Afeyan, Ph.D. ("Dr. Afeyan") is the Chief Executive Officer, director and sole stockholder of Flagship Pioneering. Each of Flagship Fund VII GP, Flagship Pioneering and Dr. Afeyan disclaims beneficial ownership of such shares except to the extent of his or its pecuniary interest therein.

Remarks:

Flagship Pioneering Fund VII General Partner LLC, By: Flagship Pioneering, Inc., its manager, By: /s/ Noubar B. Afeyan, Name: Noubar B. Afeyan, Ph.D., Title: Chief Executive Officer 06/01/2022

Flagship Pioneering Fund VII, L.P., By: Flagship Pioneering Fund VII General Partner LLC, its general partner, By: Flagship Pioneering, Inc., its manager, By: /s/ Noubar B. Afeyan, Name: Noubar B. Afeyan, Ph.D., Title: Chief Executive Officer 06/01/2022

** 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 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.