SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

SCHEDULE 13G (Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b)(c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No. 2)*

Singular Genomics Systems, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

82933R100

(CUSIP Number)

August 9, 2023

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

□ Rule 13d-1(b)

⊠ Rule 13d-1(c)

□ Rule 13d-1(d)

(Page 1 of 11 Pages)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1.	NAME OF REPORTIN	IG PERSONS	
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)			
	Deerfield Mgmt, L.P.		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*		(a) 🗆
			(b) 🗵
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLA	ACE OF ORGANIZATION	
	Delaware 5.		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES BENEFICIALLY	6.	SHARED VOTING POWER	
OWNED BY		401,784 (1)	
EACH REPORTING	7.	SOLE DISPOSITIVE POWER	
PERSON		0	
WITH	8.	SHARED DISPOSITIVE POWER	
		401,784 (1)	
9.		T BENEFICIALLY OWNED BY EACH REPORTING PERSON	
5.	AGGREGATE AMOUNT DENEFICIALLY OWNED BY EACH REPORTING PERSON		
	401,784 (1)		
10.	CHECK BOX IF THE	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
11.	11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 0.55%		
12.	TYPE OF REPORTING	G PERSON*	
	PN		
	1 1 1		

(1) Comprised of shares of Common Stock held by Deerfield Partners, L.P., of which Deerfield Mgmt, L.P. is the general partner.

1.	NAME OF REPORTIN	IG PERSONS ON NO. OF ABOVE PERSONS (ENTITIES ONLY)	
	Deerfield Mgmt IV, L.P.		
2.	~	PRIATE BOX IF A MEMBER OF A GROUP*	(a) □ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES BENEFICIALLY	6.	SHARED VOTING POWER	
OWNED BY		7,484,871 (2)	
EACH REPORTING	7.	SOLE DISPOSITIVE POWER	
PERSON		0	
WITH	8.	SHARED DISPOSITIVE POWER	
		7,484,871 (2)	
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	7,484,871 (2)		
10.			
11.	11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
	6.82%		
12.	TYPE OF REPORTING	G PERSON*	
PN			

(2) Comprised of an aggregate of (i) 4,984,871 shares of Common Stock and (ii) 2,500,000 shares of Common Stock issuable upon conversion of 2,500 shares of Series A Common Stock Equivalent Convertible Preferred Stock, which are held by Deerfield Private Design Fund IV, L.P., of which Deerfield Mgmt IV, L.P. is the general partner. The terms of the Series A Common Stock Equivalent Convertible Preferred Stock restrict the conversion of such shares to the extent that, upon such conversion, the number of shares of Common Stock then beneficially owned by the holder and its affiliates and any other person or entities with which such holder would constitute a Section 13(d) "group" would exceed 4.9% of the total number of shares of Common Stock then outstanding (the "Ownership Cap"). Accordingly, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares of Common Stock issuable upon conversion of Series A Common Stock Equivalent Convertible Preferred Stock to the extent that upon such conversion the number of shares beneficially owned by all reporting persons hereunder, in the aggregate, would exceed the Ownership Cap.

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*		(a) □ (b) ⊠	
SEC USE ONLY			
CITIZENSHIP OR PLA	ACE OF ORGANIZATION		
Delaware			
5.	SOLE VOTING POWER		
	0		
6.	SHARED VOTING POWER		
	401 784		
7.			
8.			
AGGREGATE AMOU			
	NOGREGITE INTOTAL IN NOW (5) ENGLODES CERTAIN SHARES		
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9			
TYPE OF REPORTING PERSON*			
PN			
	I.R.S. IDENTIFICATIO Deerfield Partners, L.P. CHECK THE APPROF SEC USE ONLY CITIZENSHIP OR PLA Delaware Delaware 5. 6. 7. 8. AGGREGATE AMOU 401,784 CHECK BOX IF THE PERCENT OF CLASS 0.55%	SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION Delaware 5. SOLE VOTING POWER 0 6. SHARED VOTING POWER 401,784 7. SOLE DISPOSITIVE POWER 0 0 8. SHARED DISPOSITIVE POWER 0 0 8. SHARED DISPOSITIVE POWER 401,784 0 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 401,784 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 0.55% TYPE OF REPORTING PERSON* TYPE OF REPORTING PERSON*	

H			
1.			
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)			
	Deerfield Private Desig	n Fund IV, L.P.	
2.		PRIATE BOX IF A MEMBER OF A GROUP*	(a) 🗆
			(a) ⊡ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHID OD DI	ACE OF ORGANIZATION	
4.	CITIZENSHIP OR PLA	ACE OF ORGANIZATION	
	Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF SHARES		0	
BENEFICIALLY	6.	SHARED VOTING POWER	
OWNED BY		7,484,871 (3)	
EACH	7.	SOLE DISPOSITIVE POWER	
REPORTING PERSON			
WITH		0	
	8.	SHARED DISPOSITIVE POWER	
		7,484,871 (3)	
9.			
э.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	7,484,871 (3)		
10. CHECK BOX IF THE AGGREG		AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
	11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
6.82% 12. TYPE OF REPORTING PERSON*			
		G PERSON*	
	PN		

(3) Comprised of an aggregate of (i) 4,984,871 shares of Common Stock and (ii) 2,500,000 shares of common stock issuable upon conversion of 2,500 shares of Series A Common Stock Equivalent Convertible Preferred Stock. The terms of the Series A Common Stock Equivalent Convertible Preferred Stock restrict the conversion of such shares to the extent that, upon such conversion, the number of shares of Common Stock then beneficially owned by the holder and its affiliates and any other person or entities with which such holder would constitute a Section 13(d) "group" would exceed 4.9% of the total number of shares of Common Stock then outstanding (the "Ownership Cap"). Accordingly, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares of Common Stock issuable upon conversion of Series A Common Stock Equivalent Convertible Preferred Stock to the extent that upon such conversion the number of shares beneficially owned by all reporting persons hereunder, in the aggregate, would exceed the Ownership Cap.

1. NAME OF REPORTING PERSONS			
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)			
Deerfield Management Company, L.P.			
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*		(a) 🗆
2.	CHECK THE MITRO		(a) ⊡ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PL	ACE OF ORGANIZATION	
	Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES BENEFICIALLY	6.	SHARED VOTING POWER	
OWNED BY			
EACH		7,916,655 (4)	
REPORTING	7.	SOLE DISPOSITIVE POWER	
PERSON		0	
WITH	8.	SHARED DISPOSITIVE POWER	
	0.		
		7,916,655 (4)	
9. AGGREGATE AM		NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
7,916,655 (4)			
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9			
	7.40%		
12.	TYPE OF REPORTIN	G PERSON*	
PN			
Ш	1 11		

(4) Comprised of (i) an aggregate of 5,386,655 shares of Common Stock held by Deerfield Partners, L.P. and Deerfield Private Design Fund IV L.P., of which Deerfield Management Company, L.P. is the investment advisor, (ii) 2,500,000 shares of Common Stock issuable upon conversion of 2,500 shares of Series A Common Stock Equivalent Convertible Preferred Stock, which are held by Deerfield Private Design Fund IV, L.P. of which Deerfield Management Company, L.P. is the investment manager and (iii) 30,000 shares of Common Stock underlying stock options granted to Andrew ElBardissi, an employee of Deerfield Management Company, L.P., which are held for the benefit, and at the direction, of Deerfield Management Company, L.P. The terms of the Series A Common Stock Equivalent Convertible Preferred Stock restrict the conversion of such shares to the extent that, upon such conversion, the number of shares of Common Stock then beneficially owned by the holder and its affiliates and any other person or entities with which such holder would constitute a Section 13(d) "group" would exceed 4.9% of the total number of shares of Common Stock then outstanding (the "Ownership Cap"). Accordingly, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares of Common Stock issuable upon conversion of Series A Common Stock Equivalent Convertible Preferred Stock to the extent that upon such conversion the number of shares beneficially owned by all reporting persons hereunder, in the aggregate, would exceed the Ownership Cap.

1.	NAME OF REPORTIN	NG PERSONS ON NO. OF ABOVE PERSONS (ENTITIES ONLY)	
	James E. Flynn		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*		(a) □ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES BENEFICIALLY	6.	SHARED VOTING POWER	
OWNED BY		7,916,655 (5)	
EACH REPORTING	7.	SOLE DISPOSITIVE POWER	
PERSON WITH		0	
WIII	8.	SHARED DISPOSITIVE POWER	
		7,916,655 (5)	
9.	AGGREGATE AMOU	INT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	7,916,655 (5)		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 7.40%		S REPRESENTED BY AMOUNT IN ROW 9	
12.	TYPE OF REPORTING PERSON*		
	IN		

(5) Comprised of (i) an aggregate of 5,386,655 shares of Common Stock held by Deerfield Partners, L.P. and Deerfield Private Design Fund IV L.P., (ii) 2,500,000 shares of common stock issuable upon conversion of 2,500 shares of Series A Common Stock Equivalent Convertible Preferred Stock, which are held by Deerfield Private Design Fund IV L.P. and (iii) 30,000 shares of Common Stock underlying stock options granted to Andrew ElBardissi, an employee of Deerfield Management Company, L.P., which are held for the benefit, and at the direction, of Deerfield Management Company, L.P. The terms of the Series A Common Stock Equivalent Convertible Preferred Stock restrict the conversion of such shares to the extent that, upon such conversion, the number of shares of Common Stock then beneficially owned by the holder and its affiliates and any other person or entities with which such holder would constitute a Section 13(d) "group" would exceed 4.9% of the total number of shares of Common Stock then outstanding (the "Ownership Cap"). Accordingly, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares of Common Stock issuable upon conversion of Series A Common Stock Equivalent Convertible Preferred Stock to the extent that upon such conversion the number of shares beneficially owned by all reporting persons hereunder, in the aggregate, would exceed the Ownership Cap.

CUSIP No.	82933R100
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Item 1(a).	Name of Issuer:					
	Singular Genomics Systems, Inc.					
Item 1(b).	Address of Issuer's Principal Executive Offices:					
	3010 Science Park Road, San Diego, CA 92121					
Item 2(a).	Name of Person Filing:					
	James E. Flynn, Deerfield Mgmt, L.P., Deerfield Mgmt IV, L.P., Deerfield Management Company, L.P., Deerfield Partners, L.P. and Deerfield Private Design Fund IV, L.P.					
Item 2(b).	Address of Principal Business Office, or if None, Residence:					
	James E. Flynn, Deerfield Mgmt, L.P., Deerfield Mgmt IV, L.P., Deerfield Management Company, L.P., Deerfield Partners, L.P. and Deerfield Private Design Fund IV, L.P., 345 Park Avenue South, 12th Floor, New York, NY 10010					
Item 2(c).	Citizenship:					
	Deerfield Mgmt, L.P., Deerfield Mgmt IV, L.P., Deerfield Management Company, L.P., Deerfield Partners, L.P. and Deerfield Private Design Fund IV, L.P Delaware limited partnerships;					
	James E. Flynn – United States citizen					
Item 2(d).	Title of Class of Securities:					
	Common Stock					
Item 2(e).	CUSIP Number:					
	82933R100					
Item 3.	If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:					
(a)	□ Broker or dealer registered under Section 15 of the Exchange Act.					
(b)	□ Bank as defined in Section 3(a)(6) of the Exchange Act.					
(c)	□ Insurance company as defined in Section 3(a)(19) of the Exchange Act.					
(d)	□ Investment company registered under Section 8 of the Investment Company Act.					
(e)	\Box An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);					
(f)	\Box An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);					
(g)	□ A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);					
(h)	□ A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;					
(i)	A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;					

(k) \Box Group, in accordance with Rule 13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution:

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a) Amount beneficially owned**:

Deerfield Mgmt, L.P. - 401,784 shares Deerfield Mgmt IV, L.P. – 7,484,871 shares Deerfield Management Company, L.P. - 7,916,655 shares Deerfield Partners, L.P. - 401,784 shares Deerfield Private Design Fund IV, L.P. – 7,484,871 shares James E. Flynn – 7,916,655 shares

(b) Percent of class**:

Deerfield Mgmt, L.P. – 0.55% Deerfield Mgmt IV, L.P. – 6.82% Deerfield Management Company, L.P. – 7.40% Deerfield Partners, L.P. - 0.55% Deerfield Private Design Fund IV, L.P. – 6.82% James E. Flynn – 7.40%

(c) Number of shares as to which such person has**:

- (i) Sole power to vote or to direct the vote:
- (ii) Shared power to vote or to direct the vote:

All Reporting Persons - 0

Deerfield Mgmt, L.P. - 401,784 Deerfield Mgmt IV, L.P. - 7,484,871 Deerfield Management Company, L.P. - 7,916,655 Deerfield Partners, L.P. - 401,784 Deerfield Private Design Fund IV, L.P. - 7,484,871 James E. Flynn - 7,916,655

- (iii) Sole power to dispose or to direct the disposition of:
- (iv) Shared power to dispose or to direct the disposition of:

All Reporting Persons - 0

Deerfield Mgmt, L.P. - 401,784 Deerfield Mgmt IV, L.P. - 7,484,871 Deerfield Management Company, L.P. - 7,916,655 Deerfield Partners, L.P. - 401,784 Deerfield Private Design Fund IV, L.P. - 7,484,871 James E. Flynn - 7,916,655

**See footnotes on cover pages which are incorporated by reference herein.

Item 7.

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Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities check the following \Box .

Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than five percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

	N/A
7.	Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control

If a parent holding company or Control person has filed this schedule, pursuant to Rule 13d-1(b)(1)(ii)(G), so indicate under Item 3(g) and attach an exhibit stating the identity and the Item 3 classification of the relevant subsidiary. If a parent holding company or control person has filed this schedule pursuant to Rule 13d-1(c) or Rule 13d-1(d), attach an exhibit stating the identification of the relevant subsidiary.

Item 8. Identification and Classification of Members of the Group.

If a group has filed this schedule pursuant to ss.240.13d-1(b)(1)(ii)(J), so indicate under Item 3(j) and attach an exhibit stating the identity and Item 3 classification of each member of the group. If a group has filed this schedule pursuant to ss.240.13d-1(c) or ss.240.13d-1(d), attach an exhibit stating the identity of each member of the group.

See Exhibit B

Person.

N/A

Item 9. Notice of Dissolution of Group.

Notice of dissolution of a group may be furnished as an exhibit stating the date of the dissolution and that all further filings with respect to transactions in the security reported on will be filed, if required, by members of the group, in their individual capacity. See Item 5.

N/A

Item 10. Certifications.

"By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect, other than activities solely in connection with a nomination under §240.14a–11."

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SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

DEERFIELD MGMT, L.P. By: J.E. Flynn Capital, LLC, General Partner

By: <u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P. By: Flynn Management LLC, General Partner

By: <u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

DEERFIELD MGMT IV, L.P. By: J.E. Flynn Capital IV, LLC, General Partner

By: <u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

DEERFIELD PARTNERS, L.P. By: Deerfield Mgmt, L.P., General Partner By: J.E. Flynn Capital, LLC, General Partner

By: <u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

DEERFIELD PRIVATE DESIGN FUND IV, L.P. By: Deerfield Mgmt IV, L.P., General Partner By: J.E. Flynn Capital IV, LLC, General Partner

By: <u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

JAMES E. FLYNN

<u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

Date: August 14, 2023

Exhibit A. Joint Filing Agreement.

Exhibit B. Item 8 Statement.

Exhibit C. Power of Attorney (1).

(1) Power of Attorney previously filed as Exhibit 24 to a Form 4 with regard to DA32 Life Science Tech Acquisition Corp. filed with the Securities and Exchange Commission on August 3, 2021 by Deerfield Partners, L.P., Deerfield Mgmt, L.P., Deerfield Management Company, L.P. and James E. Flynn.

Exhibit A

Joint Filing Agreement

The undersigned agree that this Schedule 13G, and all amendments thereto, relating to the Common Stock of Singular Genomics Systems, Inc. shall be filed on behalf of the undersigned.

DEERFIELD MGMT, L.P. By: J.E. Flynn Capital, LLC, General Partner

By: <u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P. By: Flynn Management LLC, General Partner

By: <u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

DEERFIELD MGMT IV, L.P. By: J.E. Flynn Capital IV, LLC, General Partner

By: <u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

DEERFIELD PARTNERS, L.P. By: Deerfield Mgmt, L.P., General Partner By: J.E. Flynn Capital, LLC, General Partner

By: <u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

DEERFIELD PRIVATE DESIGN FUND IV, L.P. By: Deerfield Mgmt IV, L.P., General Partner By: J.E. Flynn Capital IV, LLC, General Partner

By: <u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

JAMES E. FLYNN

<u>/s/ Jonathan Isler</u> Jonathan Isler, Attorney-In-Fact

Exhibit B

Due to the relationships between them, the reporting persons hereunder may be deemed to constitute a "group" with one another for purposes of Section 13(d)(3) of the Securities Exchange Act of 1934.