As filed with the Securities and Exchange Commission on March 1, 2022

**Registration No. 333-**

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

# FORM S-8

**REGISTRATION STATEMENT** 

UNDER

THE SECURITIES ACT OF 1933

# **Bionano Genomics, Inc.**

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization)

9540 Towne Centre Drive, Suite 100 San Diego, California (Address of Principal Executive Offices) (I.R.S. Employer Identification No.)

26-1756290

92121 (Zip Code)

Bionano Genomics, Inc. Amended and Restated 2018 Equity Incentive Plan, as amended Bionano Genomics, Inc. 2018 Employee Stock Purchase Plan (Full titles of the plans)

> R. Erik Holmlin, Ph.D. President and Chief Executive Officer Bionano Genomics, Inc. 9540 Towne Centre Drive, Suite 100 San Diego, California 92121 (858) 888-7600

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Thomas A. Coll, Esq. Phillip S. McGill, Esq. Cooley LLP 4401 Eastgate Mall San Diego, California 92121 (858) 550-6000 Copies to:

R. Erik Holmlin, Ph.D. President and Chief Executive Officer Bionano Genomics, Inc. 9540 Towne Centre Drive, Suite 100 San Diego, California 92121 (858) 888-7600

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer Non-accelerated filer Emerging growth company Accelerated filer Smaller reporting company If an emerging growth company, indicate by check mark if the Registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

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#### **EXPLANATORY NOTE**

This Registration Statement on Form S-8 is being filed by Bionano Genomics, Inc. (the "*Registrant*") for the purpose of registering (i) an additional 14,471,651 shares of Registrant's Common Stock, par value \$0.0001 per share ("*Common Stock*"), under the Registrant's 2018 Equity Incentive Plan, as amended (the "*2018 Plan*"), pursuant to the provisions of the 2018 Plan providing for an automatic increase in the number of shares of Common Stock reserved and available for issuance under the 2018 Plan, and (ii) 220,000 additional shares of Common Stock under the Registrant's 2018 Employee Stock Purchase Plan (the "*2018 ESPP*") pursuant to the provisions of the 2018 ESPP providing for an automatic increase in the number of shares of Common Stock reserved and available for issuance under the 2018 ESPP.

#### **INCORPORATION OF DOCUMENTS BY REFERENCE**

These additional shares of Common Stock are securities of the same class as other securities for which a Registration Statement of the Registrant on Form S-8 relating to the 2018 Plan and the 2018 ESPP are effective. The Registrant previously registered shares of its Common Stock for issuance under the 2018 Plan and 2018 ESPP under Registration Statements on Form S-8 filed with the Securities and Exchange Commission on <u>August 28, 2018 (File No. 333-227073)</u>, <u>March 29, 2019 (File No. 333-237069)</u>, <u>August 14, 2020 (File No. 333-245764)</u> and <u>March 24, 2021 (File No. 333-254654)</u>. Pursuant to General Instruction E to Form S-8, this Registration Statement hereby incorporates by reference the contents of the Registration Statements referenced above.

#### ITEM 8. EXHIBITS.

Exhibit	Description				
Number	Description				
4.1(1)	Amended and Restated Certificate of Incorporation of the Registrant, as amended.				
4.2(2)	Amended and Restated Bylaws of the Registrant.				
4.3(3)	Form of Common Stock Certificate of the Registrant.				
5.1	<u>Opinion of Cooley LLP.</u>				
23.1	Consent of BDO USA LLP, Independent Registered Public Accounting Firm.				
23.2	Consent of Cooley LLP. Reference is made to Exhibit 5.1.				
24.1	Power of Attorney. Reference is made to the signature page hereto.				
99.1(4)	<u>Bionano Genomics, Inc. 2018 Equity Incentive Plan, as amended</u> .				
99.2(5)	Forms of Stock Option Grant Notice, Option Agreement and Notice of Exercise under the 2018 Plan.				
99.3(6)	Forms of Restricted Stock Unit Grant Notice and Restricted Stock Unit Award Agreement under the 2018 Plan.				
99.3(5)	Bionano Genomics, Inc. 2018 Employee Stock Purchase Plan.				
107	<u>Filing Fee Table.</u>				
(1) Incorporated by reference to the Registrant's Annual Report on Form 10-K, filed with the SEC on March 23, 2021.					
(2) Incorporated by reference to the Registrant's Current Report on Form 8-K, filed with the SEC on August 24, 2018.					
(3) Incorport	ated by reference to the Registrant's Registration Statement on Form S-1 (File No. 333-225970), as amended.				
(4) Incorporated by reference to the Registrant's Registration Statement on Form S-8 (File No. 333-245764).					
(5) Incorporated by reference to the Registrant's Registration Statement on Form S-8 (File No. 333-227073).					
(6) Incorpor	(6) Incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, filed with the SEC on August 4, 2021.				

#### SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of San Diego, State of California, on March 1, 2022.

#### **BIONANO GENOMICS, INC.**

By: /s/ R. Erik Holmlin, Ph.D.

R. Erik Holmlin, Ph.D. President and Chief Executive Officer

#### **POWER OF ATTORNEY**

KNOW ALL BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints R. Erik Holmlin, Ph.D. as his or her true and lawful attorney-in-fact and agent, with the full power of substitution, for him or her and in his or her name, place or stead, in any and all capacities, to sign any and all amendments to this Registration Statement (including post-effective amendments), and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date	
/s/ R. Erik Holmlin, Ph.D.	President, Chief Executive Officer and Director	March 1, 2022	
R. Erik Holmlin, Ph.D.	(Principal Executive Officer)		
/s/ Christopher Stewart	Chief Financial Officer	March 1, 2022	
Christopher Stewart	(Principal Financial and Accounting Officer)		
/s/ David L. Barker, Ph.D.	Director	March 1, 2022	
David L. Barker, Ph.D.			
/s/ Yvonne Linney, Ph.D.	Director	March 1, 2022	
Yvonne Linney, Ph.D.			
/s/ Albert A. Luderer, Ph.D.	Director	March 1, 2022	
Albert A. Luderer, Ph.D.			
/s/ Hannah Mamuszka	Director	March 1, 2022	
Hannah Mamuszka			
/s/ Christopher Twomey	Director	March 1, 2022	
Christopher Twomey			
/s/ Aleksandar Rajkovic, M.D., Ph.D.	Director	March 1, 2022	
Aleksandar Rajkovic, M.D., Ph.D.			
/s/ Kristiina Vuori, M.D., Ph.D.	Director	March 1, 2022	
Kristiina Vuori, M.D., Ph.D.			
/s/ Vincent Wong, J.D., M.B.A.	Director	March 1, 2022	
Vincent Wong, J.D., M.B.A.			

Exhibit 5.1



Thomas A. Coll +1 858 550 6013 collta@cooley.com

March 1, 2022

Bionano Genomics, Inc. 9540 Towne Centre Drive, Suite 100 San Diego, CA 92121

Ladies and Gentlemen:

You have requested our opinion, as counsel to Bionano Genomics, Inc., a Delaware corporation (the "*Company*"), in connection with the filing by the Company of a Registration Statement on Form S-8 (the "*Registration Statement*") with the Securities and Exchange Commission covering the offering of an aggregate of up to 14,691,651 shares (the "*Shares*") of the Company's Common Stock, par value \$0.0001 per share ("*Common Stock*"), consisting of (i) 14,471,651 shares of Common Stock issuable pursuant to the Company's 2018 Equity Incentive Plan, as amended (the "*Incentive Plan*") and (ii) 220,000 shares of Common Stock issuable pursuant to the Company's 2018 Employee Stock Purchase Plan (together with the Incentive Plan, the "*Plans*").

In connection with this opinion, we have examined and relied upon the Registration Statement and related prospectuses, the Plans, the Company's Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws, each as currently in effect, and originals or copies certified to our satisfaction of such records, documents, certificates, memoranda and other instruments as in our judgment are necessary or appropriate to enable us to render the opinion expressed below. We have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, the conformity to originals of all documents submitted to us as copies, the accuracy, completeness and authenticity of certificates of public officials; and the due authorization, execution and delivery of all documents by all persons other than by the Company where authorization, execution and delivery are prerequisites to the effectiveness of such documents. As to certain factual matters, we have relied upon a certificate of an officer of the Company and have not independently verified such matters.

Our opinion is expressed only with respect to the General Corporation Law of the State of Delaware. We express no opinion to the extent that any other laws are applicable to the subject matter hereof and express no opinion and provide no assurance as to compliance with any federal or state securities law, rule or regulation.

On the basis of the foregoing, and in reliance thereon, we are of the opinion that the Shares, when sold and issued in accordance with the Plans, the Registration Statement and related prospectus, will be validly issued, fully paid and nonassessable (except as to shares issued pursuant to certain deferred payment arrangements, which will be fully paid and nonassessable when such deferred payments are made in full).

Cooley LLP 4401 Eastgate Mall San Diego, CA 92121 t: (858) 550-6000 f: (858) 550-6420 cooley.com



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We consent to the filing of this opinion as an exhibit to the Registration Statement.

Sincerely,

Cooley LLP

By: /s/ Thomas A. Coll Thomas A. Coll

> Cooley LLP 4401 Eastgate Mall San Diego, CA 92121 t: (858) 550-6000 f: (858) 550-6420 cooley.com

# Consent of Independent Registered Public Accounting Firm

Bionano Genomics, Inc. San Diego, California

We hereby consent to the incorporation by reference in this Registration Statement on Form S-8 of our reports dated March 1, 2022, relating to the consolidated financial statements and effectiveness of Bionano Genomics, Inc.'s (the "Company"), internal control over financial reporting appearing in the Company's Annual Report on Form 10-K for the year ended December 31, 2021.

/s/ BDO USA, LLP

San Diego, CA March 1, 2022

# **Calculation of Filing Fee Table**

# <u>Form S-8</u> (Form Type)

# <u>Bionano Genomics, Inc.</u> (Exact Name of Registrant as Specified in its Charter)

## Table 1: Newly Registered Securities

Security Type	Security Class Title	Fee Calculation Rule	Amount Registered <sup>(1)</sup>	Proposed Maximum Offering Price Per Unit <sup>(2)</sup>	Maximum Aggregate Offering Price <sup>(2)</sup>	Fee Rate	Amount of Registration Fee
Equity	2018 Equity Incentive Plan, as amended Common Stock, \$0.0001 par value per share	457(h) <sup>(2)</sup>	14,471,651 <sup>(3)</sup>	\$2.01	\$29,088,018.11	.0000927	\$2,696.46
Equity	2018 Employee Stock Purchase Plan Common Stock, \$0.0001 par value per share	457(h) <sup>(2)</sup>	220,000 <sup>(4)</sup>	\$2.01	\$442,200.00	.0000927	\$41.00
Total Offering Amounts				\$29,547,201.00		—	
Total Fees Previously Paid							
Total Fee Offsets Net Fee Due							

- (1) Pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement shall also cover any additional shares of common stock, par value \$0.0001 per share ("Common Stock"), of Bionano Genomics, Inc. (the "Registrant") that become issuable under the Registrant's 2018 Equity Incentive Plan, as amended (the "2018 Plan"), and the Registrant's 2018 Employee Stock Purchase Plan (the "2018 ESPP") by reason of any stock dividend, stock split, recapitalization or other similar transaction.
- (2) Estimated solely for the purpose of calculating the amount of the registration fee pursuant to Rule 457(h) and 457(c) of the Securities Act. The proposed maximum aggregate offering price per share and proposed maximum aggregate offering price are calculated using the average of the high and low prices of the Common Stock as reported on the Nasdaq Capital Market on February 22, 2022.
- (3) Represents shares of Common Stock that were automatically added to the shares authorized for issuance under the 2018 Plan on January 1, 2022 pursuant to an "evergreen" provision contained in the 2018 Plan. Pursuant to such provision, on January 1st of each year through January 1, 2028, the number of shares authorized for issuance under the 2018 Plan will be automatically increased by the lesser of: (a) 5% of the total number of shares of capital stock of the Registrant outstanding on December 31 of the preceding calendar year; or (b) such lesser number of shares of Common Stock as the Registrant's board of directors (the "*Board*") may designate prior to the applicable January 1<sup>st</sup>.
- (4) Represents shares of Common Stock that were automatically added to the shares authorized for issuance under the 2018 ESPP on January 1, 2022 pursuant to an "evergreen" provision contained in the 2018 ESPP. Pursuant to such provision, on January 1<sup>st</sup> of each year through January 1, 2028, the number of shares authorized for issuance under the 2018 ESPP will be automatically increased by a number equal to the lesser of: (a) 1% of the total number of shares of capital stock outstanding on December 31 of the preceding calendar year; (b) 220,000 shares; or (c) such lesser number of shares of Common Stock as the Board may designate prior to the applicable January 1st.