

Form 5500

Annual Return/Report of Employee Benefit Plan

OMB Nos. 1210-0110 1210-0089

2024

This Form is Open to Public Inspection

Department of the Treasury Internal Revenue Service

Department of Labor Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code).

Complete all entries in accordance with the instructions to the Form 5500.

Part I Annual Report Identification Information

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

- A This return/report is for: a multiemployer plan, a multiple-employer plan, a single-employer plan, a DFE (specify), the first return/report, the final return/report, an amended return/report, a short plan year return/report (less than 12 months)
B This return/report is:
C If the plan is a collectively-bargained plan, check here.
D Check box if filing under: Form 5558, automatic extension, the DFVC program, special extension (enter description)
E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here.

Part II Basic Plan Information—enter all requested information

1a Name of plan: BIONANO GENOMICS, INC. 401(K) PLAN
1b Three-digit plan number (PN): 001
1c Effective date of plan: 01/01/2009
2a Plan sponsor's name (employer, if for a single-employer plan), Mailing address (include room, apt., suite no. and street, or P.O. Box), City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions): BIONANO GENOMICS, INC., 9540 TOWNE CENTRE DRIVE, SUITE 100, SAN DIEGO, CA 92121
2b Employer Identification Number (EIN): 26-1756290
2c Plan Sponsor's telephone number: 858-888-7607
2d Business code (see instructions): 541700

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

Table with 4 columns: SIGN HERE, Signature of plan administrator, Date, Enter name of individual signing as plan administrator. Includes rows for employer/plan sponsor and DFE.

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2024) v. 240311

3a Plan administrator's name and address <input checked="" type="checkbox"/> Same as Plan Sponsor	3b Administrator's EIN	
	3c Administrator's telephone number	
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name	4b EIN	
	4d PN	
5 Total number of participants at the beginning of the plan year	5	493
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) g(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....	6a(1)	278
	6a(2)	79
	6b	0
	6c	330
	6d	409
	6e	0
	6f	409
	6g(1)	486
	6g(2)	406
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7	

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:
2E 2F 2G 2J 2K 2S 2T 3D

b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:

9a Plan funding arrangement (check all that apply)	9b Plan benefit arrangement (check all that apply)
(1) <input type="checkbox"/> Insurance	(1) <input type="checkbox"/> Insurance
(2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts	(2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts
(3) <input checked="" type="checkbox"/> Trust	(3) <input checked="" type="checkbox"/> Trust
(4) <input type="checkbox"/> General assets of the sponsor	(4) <input type="checkbox"/> General assets of the sponsor

10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

- (1) **R** (Retirement Plan Information)
- (2) **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3) **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary
- (4) **DCG** (Individual Plan Information) – Number Attached _____
- (5) **MEP** (Multiple-Employer Retirement Plan Information)

b General Schedules

- (1) **H** (Financial Information)
- (2) **I** (Financial Information – Small Plan)
- (3) **A** (Insurance Information) – Number Attached _____
- (4) **C** (Service Provider Information)
- (5) **D** (DFE/Participating Plan Information)
- (6) **G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) Yes No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) Yes No

11c Enter the Receipt Confirmation Code for the 2024 Form M-1 annual report. If the plan was not required to file the 2024 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE C (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection.
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For calendar plan year 2024 or fiscal plan year beginning **01/01/2024** and ending **12/31/2024**

A Name of plan BIONANO GENOMICS, INC. 401(K) PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 BIONANO GENOMICS, INC.	D Employer Identification Number (EIN) 26-1756290	

Part I Service Provider Information (see instructions)

You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions)..... Yes No

b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

ALLIANZ GLOBAL INVESTORS DISTRIBUTO **1345 AVENUE OF THE AMERICAS**
NEW YORK, NY 10105

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

ALLSPRING GLOBAL INVESTMENTS

95-3692822

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

BLACKROCK INVESTMENTS, INC.

23-2784752

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

COLUMBIA **ONE FINANCIAL CENTER**
MA5-515-14-01
BOSTON, MA 02111

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

DODGE & COX INC., DISTRIBUTOR

94-1441976

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

FIDELITY DISTRIBUTORS CORP.

500 SALEM STREET
MAIL ZONE O3N
SMITHFIELD, RI 02917

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

GREAT GRAY TRUST

81-2721934

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

J.P. MORGAN INVESTMENT MANAGEMENT

13-3200244

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

LEGG MASON INVESTOR SERVICES, LLC

100 INTERNATIONAL DRIVE
BALTIMORE, MD 21202

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

NUVEEN INVESTMENTS

333 W. WACKER DR
CHICAGO, IL 60606

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

PHOENIX - VIRTUS

56 PROSPECT STREET
PO BOX 150480
HARTFORD, CT 06115

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

PRUDENTIAL INVESTMENTS LLC

22-3468527

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

TIAA-CREF FUNDS

730 THIRD AVENUE
NEW YORK, NY 10017

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

VANGUARD

455 DEVON PARK DRIVE
WAYNE, PA 19087

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

MORGAN STANLEY SMITH BARNEY

20-8764829

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 21 49 50 64 99	INVESTMENT/FINANCIAL ADVI	60789	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	0	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

(a) Enter name and EIN or address (see instructions)

ADP, INC.

13-3036745

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
37 50 15 64	RECORD KEEPER	10061	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	0	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

(a) Enter name and EIN or address (see instructions)

ADP BROKER-DEALER

22-3319984

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
60 59	RECORD KEEPER	0	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	0	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
ADP BROKER-DEALER	60 59	0
(d) Enter name and EIN (address) of source of indirect compensation DODGE & COX INC., DISTRIBUTOR 94-1441976	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation. ANNUAL RATE 0.00100 OF AVERAGE DAILY ASSETS	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name: WRIGHT FORD YOUNG & COMPANY	b EIN: 95-3288054
c Position: ACCOUNTANT	
d Address: 16140 SAND CANYON AVENUE IRVINE, CA 92618	e Telephone: 949-910-2727

Explanation: COST OF SERVICES

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

SCHEDULE D (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small>	DFE/Participating Plan Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection.
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

A Name of plan <u>BIONANO GENOMICS, INC. 401(K) PLAN</u>	B Three-digit plan number (PN) ▶	<u>001</u>
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 <u>BIONANO GENOMICS, INC.</u>	D Employer Identification Number (EIN) <u>26-1756290</u>	

Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)
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a Name of MTIA, CCT, PSA, or 103-12 IE: <u>MET GG SV 25554 - J</u>		
b Name of sponsor of entity listed in (a): <u>WILMINGTON TRUST RISC CIT</u>		
c EIN-PN <u>26-0142858-094</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>1036966</u>
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

SCHEDULE H (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024	
A Name of plan BIONANO GENOMICS, INC. 401(K) PLAN	B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 BIONANO GENOMICS, INC.	D Employer Identification Number (EIN) 26-1756290

Part I	Asset and Liability Statement
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1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. **Round off amounts to the nearest dollar.** MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.

	(a) Beginning of Year	(b) End of Year
Assets		
a Total noninterest-bearing cash	1a	
b Receivables (less allowance for doubtful accounts):		
(1) Employer contributions	1b(1)	
(2) Participant contributions	1b(2)	
(3) Other	1b(3)	
c General investments:		
(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)	
(2) U.S. Government securities	1c(2)	
(3) Corporate debt instruments (other than employer securities):		
(A) Preferred	1c(3)(A)	
(B) All other	1c(3)(B)	
(4) Corporate stocks (other than employer securities):		
(A) Preferred	1c(4)(A)	
(B) Common	1c(4)(B)	
(5) Partnership/joint venture interests	1c(5)	
(6) Real estate (other than employer real property)	1c(6)	
(7) Loans (other than to participants)	1c(7)	
(8) Participant loans	1c(8)	113476
(9) Value of interest in common/collective trusts	1c(9)	1036966
(10) Value of interest in pooled separate accounts	1c(10)	
(11) Value of interest in master trust investment accounts	1c(11)	
(12) Value of interest in 103-12 investment entities	1c(12)	
(13) Value of interest in registered investment companies (e.g., mutual funds)	1c(13)	27377569
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)	
(15) Other.....	1c(15)	

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities.....	1d(1)		
(2) Employer real property.....	1d(2)		
e Buildings and other property used in plan operation.....	1e		
f Total assets (add all amounts in lines 1a through 1e).....	1f	28617715	28442572
Liabilities			
g Benefit claims payable.....	1g		
h Operating payables.....	1h		
i Acquisition indebtedness.....	1i		
j Other liabilities.....	1j		
k Total liabilities (add all amounts in lines 1g through 1j).....	1k	0	0
Net Assets			
l Net assets (subtract line 1k from line 1f).....	1l	28617715	28442572

Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers.....	2a(1)(A)	1157375	
(B) Participants.....	2a(1)(B)	2582895	
(C) Others (including rollovers).....	2a(1)(C)	108733	
(2) Noncash contributions.....	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		3849003
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit).....	2b(1)(A)		
(B) U.S. Government securities.....	2b(1)(B)		
(C) Corporate debt instruments.....	2b(1)(C)		
(D) Loans (other than to participants).....	2b(1)(D)		
(E) Participant loans.....	2b(1)(E)	6746	
(F) Other.....	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		6746
(2) Dividends:			
(A) Preferred stock.....	2b(2)(A)		
(B) Common stock.....	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds).....	2b(2)(C)	811550	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		811550
(3) Rents.....	2b(3)		
(4) Net gain (loss) on sale of assets:			
(A) Aggregate proceeds.....	2b(4)(A)		
(B) Aggregate carrying amount (see instructions).....	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result.....	2b(4)(C)		
(5) Unrealized appreciation (depreciation) of assets:			
(A) Real estate.....	2b(5)(A)		
(B) Other.....	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		25589
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		3544362
c Other income	2c		11
d Total income. Add all income amounts in column (b) and enter total	2d		8237261

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	8251974	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		8251974
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		89578
h Interest expense	2h		
i Administrative expenses:			
(1) Salaries and allowances	2i(1)		
(2) Contract administrator fees	2i(2)		
(3) Recordkeeping fees	2i(3)	10062	
(4) IQPA audit fees	2i(4)		
(5) Investment advisory and investment management fees	2i(5)	60790	
(6) Bank or trust company trustee/custodial fees	2i(6)		
(7) Actuarial fees	2i(7)		
(8) Legal fees	2i(8)		
(9) Valuation/appraisal fees	2i(9)		
(10) Other trustee fees and expenses	2i(10)		
(11) Other expenses	2i(11)		
(12) Total administrative expenses. Add lines 2i(1) through (11)	2i(12)		70852
j Total expenses. Add all expense amounts in column (b) and enter total	2j		8412404

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		-175143
l Transfers of assets:			
(1) To this plan	2l(1)		0
(2) From this plan	2l(2)		0

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) Unmodified (2) Qualified (3) Disclaimer (4) Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) DOL Regulation 2520.103-8 (2) DOL Regulation 2520.103-12(d) (3) neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: **COULTER & JUSTUS, P.C.**

(2) EIN: **62-1532536**

d The opinion of an independent qualified public accountant is **not attached** as part of Schedule H because:

(1) This form is filed for a CCT, PSA, DCG or MTIA. (2) It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l. DCGs do not complete lines 4e, 4f, 4k, 4l, and 5, and DCGs generally complete the rest of Part IV collectively for all plans in the DCG, except as otherwise provided (see instructions).

During the plan year:

	Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)		X	
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)		X	
e Was this plan covered by a fidelity bond?	X		500000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X	
l Has the plan failed to provide any benefit when due under the plan?		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? Yes No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) Yes No Not determined
 If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____.

SCHEDULE R (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection.
--	---	---

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

A Name of plan <u>BIONANO GENOMICS, INC. 401(K) PLAN</u>	B Three-digit plan number (PN) ▶	<u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>BIONANO GENOMICS, INC.</u>	D Employer Identification Number (EIN) <u>26-1756290</u>	

Part I	Distributions
---------------	----------------------

All references to distributions relate only to payments of benefits during the plan year.

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....	1	0
---	---	---

2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits):
EIN(s): 57-1198022

Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.

3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year	3	
--	---	--

Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)
----------------	---

4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? Yes No N/A
If the plan is a defined benefit plan, go to line 8.

5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. **Date:** Month _____ Day _____ Year _____
If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.

6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)	6a	
b Enter the amount contributed by the employer to the plan for this plan year	6b	
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount).....	6c	

If you completed line 6c, skip lines 8 and 9.

7 Will the minimum funding amount reported on line 6c be met by the funding deadline? Yes No N/A

8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? Yes No N/A

Part III	Amendments
-----------------	-------------------

9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box..... Increase Decrease Both No

Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.
----------------	---

10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan? Yes No

11 a Does the ESOP hold any preferred stock? Yes No

b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.) Yes No

12 Does the ESOP hold any stock that is not readily tradable on an established securities market? Yes No

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (measured in dollars). See instructions. Complete as many entries as needed to report all applicable employers.

a Name of contributing employer _____

b EIN _____ **c** Dollar amount contributed by employer _____

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

a Name of contributing employer _____

b EIN _____ **c** Dollar amount contributed by employer _____

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

a Name of contributing employer _____

b EIN _____ **c** Dollar amount contributed by employer _____

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

a Name of contributing employer _____

b EIN _____ **c** Dollar amount contributed by employer _____

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

a Name of contributing employer _____

b EIN _____ **c** Dollar amount contributed by employer _____

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

a Name of contributing employer _____

b EIN _____ **c** Dollar amount contributed by employer _____

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

14 Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:

a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: <input type="checkbox"/> last contributing employer <input type="checkbox"/> alternative <input type="checkbox"/> reasonable approximation (see instructions for required attachment).....	14a	
b The plan year immediately preceding the current plan year. <input type="checkbox"/> Check the box if the number reported is a change from what was previously reported (see instructions for required attachment).....	14b	
c The second preceding plan year. <input type="checkbox"/> Check the box if the number reported is a change from what was previously reported (see instructions for required attachment).....	14c	

15 Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year	15a	
b The corresponding number for the second preceding plan year	15b	

16 Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year	16a	
b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers.....	16b	

17 If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

18 If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment

19 If the total number of participants is 1,000 or more, complete lines (a) and (b):

a Enter the percentage of plan assets held as:
 Public Equity: _____% Private Equity: _____% Investment-Grade Debt and Interest Rate Hedging Assets: _____%
 High-Yield Debt: _____% Real Assets: _____% Cash or Cash Equivalents: _____% Other: _____%

b Provide the average duration of the Investment-Grade Debt and Interest Rate Hedging Assets:
 0-5 years 5-10 years 10-15 years 15 years or more

20 PBGC missed contribution reporting requirements. If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20.

a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? Yes No

b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:
 Yes.
 No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.
 No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.
 No. Other. Provide explanation: _____

Part VII IRS Compliance Questions

21a Does the plan satisfy the coverage and nondiscrimination tests of Code sections 410(b) and 401(a)(4) by combining this plan with any other plans under the permissive aggregation rules? Yes No

21b If this is a Code section 401(k) plan, check all boxes that apply to indicate how the plan is intended to satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under Code sections 401(k)(3) and 401(m)(2).
 Design-based safe harbor method
 "Prior year" ADP test
 "Current year" ADP test
 N/A

22 If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter 10 / 06 / 2020 (MM/DD/YYYY) and the Opinion Letter serial number Q704162A.

Financial Statements
and Supplemental Schedule

Bionano Genomics, Inc. 401(k) Plan

*As of December 31, 2024 and 2023,
and for the year ended December 31, 2024
with Independent Auditor's Report*

Bionano Genomics, Inc. 401(k) Plan

Financial Statements
and Supplemental Schedule

As of December 31, 2024 and 2023,
and for the year ended December 31, 2024

Contents

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Independent Auditor's Report

Plan Administrator
Bionano Genomics, Inc. 401(k) Plan

Scope and Nature of the ERISA Section 103(a)(3)(C) Audit for the 2024 Financial Statements

We have performed an audit of the financial statements of Bionano Genomics, Inc. 401(k) Plan (the Plan), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), as permitted by ERISA Section 103(a)(3)(C) (ERISA Section 103(a)(3)(C) audit). The financial statements comprise the statements of net assets available for benefits as of December 31, 2024, and the related statement of changes in net assets available for benefits for the year then ended, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audit of the Plan's financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's (DOL) Rules and Regulations for Reporting and Disclosure under ERISA. As permitted by ERISA Section 103(a)(3)(C), our audit need not extend to any statements or information related to assets held for investment of the Plan (investment information) by a bank or similar institution or insurance carrier that is regulated, supervised, and subject to periodic examination by a state or federal agency, provided that the statements or information regarding assets so held are prepared and certified to by the bank or similar institution or insurance carrier in accordance with 29 CFR 2520.103-5 of the DOL's Rules and Regulations for Reporting and Disclosure under ERISA (qualified institution).

Management has obtained a certification from a qualified institution as of and for the year ended December 31, 2024, stating the certified investment information, as described in Note 3 to the financial statements, is complete and accurate.

Opinion on the 2024 Financial Statements

In our opinion, based on our audit and on the procedures performed as described in the Auditor's Responsibilities for the Audit of the Financial Statements section:

- the amounts and disclosures in the accompanying financial statements, other than those agreed to or derived from the certified investment information, are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America (GAAP).
- the information in the accompanying financial statements related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Plan Administrator
Bionano Genomics, Inc. 401(k) Plan

Basis for Opinion on the 2024 Financial Statements

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor’s Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe the audit evidence we have obtained is sufficient and appropriate to provide a basis for our ERISA Section 103(a)(3)(C) audit opinion.

Responsibilities of Management for the Financial Statements for the 2024 Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with GAAP, and for the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error. Management’s election of the ERISA Section 103(a)(3)(C) audit does not affect management’s responsibility for the financial statements.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan’s ability to continue as a going concern for one year after the date the financial statements are issued.

Management is also responsible for maintaining a current Plan instrument, including all Plan amendments, administering the Plan, and determining the Plan’s transactions that are presented and disclosed in the financial statements are in conformity with the Plan’s provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditor’s Responsibilities for the Audit of the 2024 Financial Statements

Except as described in the Scope and Nature of the ERISA Section 103(a)(3)(C) Audit section of our report, our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an independent auditor’s report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and, therefore, is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

Plan Administrator
Bionano Genomics, Inc. 401(k) Plan

Auditor's Responsibilities for the Audit of the 2024 Financial Statements (continued)

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

Our audit did not extend to the certified investment information, except for obtaining and reading the certification, comparing the certified investment information with the related information presented and disclosed in the financial statements, and reading the disclosures relating to the certified investment information to assess whether they are in accordance with the presentation and disclosure requirements of GAAP.

Accordingly, the objective of an ERISA Section 103(a)(3)(C) audit is not to express an opinion about whether the financial statements as a whole are presented fairly, in all material respects, in accordance with GAAP.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings and certain internal control-related matters that we identified during the audit.

Other Matter – 2024 Supplemental Schedule Required by ERISA

The supplemental Schedule of Assets (Held at End of Year) as of December 31, 2024, is presented for purposes of additional analysis and is not a required part of the financial statements but is supplementary information required by the DOL's Rules and Regulations for Reporting and Disclosure under ERISA. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements.

Plan Administrator
Bionano Genomics, Inc. 401(k) Plan

Other Matter – 2024 Supplemental Schedule Required by ERISA (continued)

The information included in the supplemental schedule, other than that agreed to or derived from the certified investment information, has been subjected to auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with GAAS. For information included in the supplemental schedules that agreed to or is derived from the certified investment information, we compared such information to the related certified investment information.

In forming our opinion on the supplemental schedule, we evaluated whether the supplemental schedules, other than the information agreed to or derived from the certified investment information, including their form and content, are presented in conformity with the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion:

- the form and content of the supplemental schedule, other than the information in the supplemental schedules that agreed to or is derived from the certified investment information, are presented, in all material respects, in conformity with the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.
- the information in the supplemental schedules related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Other Matter – Auditor's Report on the 2023 Financial Statements

Predecessor auditors performed an audit of the 2023 financial statements of the Plan. In accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA, the prior year audit did not extend to any statements or information related to assets held for investment of the plan that were certified by a qualified institution. Their report dated October 2, 2024 indicated that (a) the amounts and disclosures in the 2023 financial statements, other than those agreed to or derived from the certified investment information, were presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America, and (b) the information in the 2023 financial statements related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Plan Administrator
Bionano Genomics, Inc. 401(k) Plan

Other Matter – Auditor’s Report on the 2023 Financial Statements (continued)

Their report also indicated that the form and content of the 2023 supplemental schedules, other than the information in the 2023 supplemental schedules that agreed to or is derived from the certified investment information, were presented, in all material respects, in conformity with the Department of Labor’s Rules and Regulations for Reporting and Disclosure under ERISA; and the information in the 2023 supplemental schedules related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determines meets the requirements of ERISA Section 103(a)(3)(C).

Coulter & Justus, P.C.

Coulter & Justus, P.C.

September 17, 2025
Knoxville, Tennessee

Bionano Genomics, Inc. 401(k) Plan

Statements of Net Assets Available for Benefits

	December 31	
	2024	2023
Assets		
Investments at fair value	\$ 28,414,535	\$ 28,504,239
Receivables:		
Employer cash contributions	-	144,072
Participant cash contributions	240	105,644
Notes receivable from participants	28,037	113,476
Total receivables	28,277	363,192
Net assets available for benefits	\$ 28,442,812	\$ 28,867,431

See accompanying Notes to Financial Statements.

Bionano Genomics, Inc. 401(k) Plan

Statement of Changes in Net Assets Available for Benefits

Year ended December 31, 2024

Additions

Investment income:

Net appreciation in fair value of investments	\$ 3,544,373
Interest income from common collective trust	25,589
Dividend income	811,550

Total investment income 4,381,512

Interest income on notes receivable from participants 6,746

Cash contributions:

Employer	1,013,303
Participants	2,477,491
Rollovers	108,733

Total cash contributions 3,599,527

Total additions 7,987,785

Deductions

Benefits paid to participants 8,341,552

Administrative expenses to parties-in-interest 70,852

Total deductions 8,412,404

Net decrease (424,619)

Net assets available for benefits at beginning of year 28,867,431

Net assets available for benefits at end of year \$ 28,442,812

See accompanying Notes to Financial Statements.

Bionano Genomics, Inc. 401(k) Plan

Notes to Financial Statements

December 31, 2024

1. Description of the Plan

The following description of the Bionano Genomics, Inc. 401(k) Plan (the Plan), provides only general information. Participants should refer to the Plan agreement for a more complete description of the Plan's provisions.

General

The Plan is a defined contribution plan available to eligible employees of Bionano Genomics, Inc., BioDiscovery, Inc., and Lineagen, Inc. (collectively, the Employer), who are age 21 or older. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).

The Employer is responsible for the administration of the Plan and has entrusted the maintenance of records and the day-to-day administration to Automatic Data Processing (ADP), who processes transactions through Reliance Trust Company (RTC), the trustee.

Contributions

Each year, participants may contribute up to 90% of their pre-tax annual compensation, as defined in the Plan. In addition, participants who have attained the age of 50 before the end of the Plan year are eligible to make catch-up contributions. Participants may also contribute amounts representing distributions from other qualified defined benefit or defined contribution plans (rollovers). Participants direct the investment of their contributions into various investment options offered by the Plan. Participants can change the investment options previously elected at any time.

The Plan includes an auto-enrollment provision whereby all newly eligible employees are automatically enrolled in the Plan unless they affirmatively elect not to participate. Automatically enrolled participants have their deferral rate set at 5% of eligible compensation.

Prior to December 1, 2024, the Employer made safe harbor matching contributions equal to 100% of the employee's contributions up to 3% of the employee's compensation, plus 50% of the employee's contributions between 3% and 5% of the employee's compensation. Effective December 1, 2024, the safe harbor matching contribution was replaced with a discretionary employer matching contribution provision. The Employer may also make discretionary nonelective and qualified nonelective contributions. During 2024, the Employer did not make any discretionary contributions to the Plan.

Contributions are subject to certain Internal Revenue Service (IRS) limitations.

Bionano Genomics, Inc. 401(k) Plan
Notes to Financial Statements (continued)

1. Description of the Plan (continued)

Participant Accounts

Each participant's account is credited with the participant's contributions, the Employer's safe harbor matching (prior to December 1, 2024), discretionary matching (effective December 1, 2024), discretionary nonelective, and qualified nonelective contributions and Plan earnings or losses. Participant accounts are charged with an allocation of administrative expenses that are paid by the Plan. Allocations are based on participant earnings, account balances or specific participant transactions, as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Vesting

Participants are immediately vested in their voluntary contributions, Employer safe harbor matching, discretionary matching, discretionary nonelective, and qualified nonelective contributions plus actual earnings on these contributions.

Notes Receivable from Participants

Participants may borrow from their fund accounts a minimum of \$1,000 up to a maximum equal to the lesser of \$50,000 or 50% of their vested account balance. The loans are secured by the balance in the participant's account. The loan interest rate is set at 1% above the prime rate, as defined. Principal and interest are paid ratably through payroll deductions.

Payment of Benefits

On termination of service due to death, disability or early retirement, a participant may elect to receive a lump-sum amount equal to the value of the participant's vested interest in his or her account. Participants electing to receive benefits after the normal retirement age may choose either a lump-sum amount or annual installments. For termination of service due to other reasons, a participant may receive the value of the vested interest in his or her account as a lump-sum distribution or roll over their account into another individual retirement account. The Plan permits in-service and hardship withdrawals under certain conditions.

Forfeitures

Forfeitures are created when participants terminate employment before becoming entitled to their full benefits under the Plan and are considered nonparticipant-directed investments. Forfeitures may be used to pay administrative expenses and to reduce Employer contributions.

Bionano Genomics, Inc. 401(k) Plan
Notes to Financial Statements (continued)

2. Significant Accounting Policies

Basis of Accounting

The financial statements of the Plan are prepared on the accrual basis of accounting. The annual returns filed under applicable provisions of ERISA and the Internal Revenue Code (IRC) are maintained on the cash basis.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect certain reported amounts and disclosures and changes therein. Accordingly, actual results could differ from those estimates.

Investment Valuation and Income Recognition

The Plan's investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Employer determines the Plan's valuation policies utilizing information provided by ADP and RTC. See Note 4 for a discussion of fair value measurements.

Purchases and sales of securities are recorded on a trade date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation includes the Plan's gains and losses on investments bought and sold, as well as held, during the year.

Contributions

Contributions from Plan participants and the safe harbor matching contributions from the Employer are recorded in the year in which the employee contributions are withheld from compensation.

Notes Receivable from Participants

Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recorded on the accrual basis. Related fees are recorded as administrative expenses and are expensed as incurred. No allowance for credit losses has been recorded as of December 31, 2024 and 2023. If a participant ceases to make scheduled repayments and the Plan administrator deems the note receivable to be in default, the note receivable balance is reduced and a benefit payment recorded.

Benefit Payments

Benefits are recorded when paid.

Bionano Genomics, Inc. 401(k) Plan
Notes to Financial Statements (continued)

2. Significant Accounting Policies (continued)

Administrative Expenses

Certain expenses of maintaining the Plan are paid by the Plan, unless otherwise paid by the Employer. Expenses paid by the Employer are excluded from these financial statements. Fees related to the administration of notes receivable from participants are charged directly to the participant's account and are included in administrative expenses. Investment related expenses are included in net appreciation in fair value of investments.

Subsequent Events

The Plan has evaluated subsequent events through September 17, 2025, the date the financials were available to be issued. ADP Retirement Trust Service, LLC took over the trustee services of the Plan upon Reliance Trust Company's resignation effective December 31, 2024.

3. Certified Investments

Certain information related to investments and notes receivable from participants disclosed in the accompanying financial statements and ERISA-required supplemental schedule, including investments and notes receivable from participants held as of December 31, 2024 and 2023, and net appreciation in fair value of investments, interest income from common collective trust, dividend income and interest income on notes receivable from participants for the year ended December 31, 2024, was obtained by management and agreed to or derived from information certified as complete and accurate by RTC.

4. Fair Value Measurements

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy under FASB ASC 820 are described below:

Level 1 Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan can access.

Level 2 Inputs to the methodology include:

- Quoted prices for similar assets or liabilities in active markets;
- Quoted prices for identical or similar assets or liabilities in inactive markets;
- Inputs other than quoted prices that are observable for the asset or liability;
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

Bionano Genomics, Inc. 401(k) Plan
Notes to Financial Statements (continued)

4. Fair Value Measurements (continued)

Level 3 Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The fair value measurement level within the fair value hierarchy for assets or liabilities is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

Following is a description of the valuation methodologies used for assets measured at fair value.

Registered investment companies: These investments are public investment vehicles valued using the net asset value (NAV) provided by the administrator of the fund. The NAV is based on the value of the underlying assets owned by the fund, minus its liabilities, and then divided by the number of shares outstanding. The NAV is quoted price in an active market and classified within level 1 of the valuation hierarchy.

Collective investment trust (2024): Valued at the NAV of shares held by the Plan at year end. Although the collective investment trusts are not available in an active market, the NAV of units is approximated based on the quoted prices of the underlying investments and are traded in an active market, as such they are classified within level 2 of the valuation hierarchy.

Common/collective trust—Stable Value Fund (2023): The stable value fund is composed primarily of fully benefit-responsive investment contracts contained in a collective trust and is valued at the net asset value of the units of the bank collective trust. Participant transactions (purchases and sales) may occur daily. Certain events would limit the ability of the Plan and the trust to transact at fair value. The Plan Administrator does not believe that any such events are probable of occurring.

The following table sets forth by level, within the fair value hierarchy, the Plan's investments at fair value as of December 31:

	Level 1	Level 2	Level 3	Total
2024:				
Registered investment companies	\$27,377,569	\$ —	\$ —	\$27,377,569
Collective investment trust	—	1,036,966	—	1,036,966
Total investments at fair value	<u>\$27,377,569</u>	<u>\$1,036,966</u>	<u>\$ —</u>	<u>\$28,414,535</u>
2023:				
Registered investment companies	\$27,361,144	\$ —	\$ —	\$27,361,144
Common/collective trust	1,143,095	—	—	1,143,095
Total investments at fair value	<u>\$28,504,239</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$28,504,239</u>

Bionano Genomics, Inc. 401(k) Plan
Notes to Financial Statements (continued)

5. Related Party Transactions and Party-in-Interest Transactions

Notes receivable from participants and participant contributions are considered to be party-in-interest transactions. Employer contributions are considered to be both party-in-interest and related party transactions.

6. Plan Termination

Although it has not expressed any intent to do so, the Employer has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA.

7. Tax Status

The Plan adopted a non-standardized pre-approved profit sharing plan which had received an opinion letter dated October 6, 2020, from the IRS which stated the plan, as then designed, was in compliance with the applicable requirements of the Internal Revenue Code (IRC). Although the plan has been amended since receiving the opinion letter, the Plan administrator and the Plan's tax counsel believe the Plan is designed and is currently being operated, in compliance with the applicable requirements of the IRC and, therefore, believe that the Plan is qualified, and the related trust is tax-exempt.

Accounting principles generally accepted in the United States of America require plan management to evaluate tax positions taken by the Plan and recognize a tax liability if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

8. Risks and Uncertainties

The Plan invests in various investment securities, which are exposed to various risks such as interest rate, market and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term, and that such changes could materially affect participants' account balances and amounts reported in the statements of net assets available for benefits.

Bionano Genomics, Inc. 401(k) Plan
Notes to Financial Statements (continued)

9. Reconciliation of Financial Statements to Form 5500

The following is a reconciliation of net assets available for benefits per the financial statements to Schedule H of Form 5500 as of December 31:

	2024	2023
Net assets available for benefits per financial statements	\$28,442,812	\$28,867,431
Less contributions receivable per the financial statements	(240)	(249,716)
Net assets available for benefits per Form 5500	\$28,442,572	\$28,617,715

The following is a reconciliation of net decrease per the financial statements to the Form 5500 for the year ended December 31, 2024:

Net decrease in net assets available for benefits per financial statements	\$ (424,619)
Prior year contributions receivable	249,716
Current year contributions receivable	(240)
Net loss per Form 5500	\$ (175,143)

Bionano Genomics, Inc. 401(k) Plan
Employer Identification Number: 26-1756290; Plan Number: 001

Schedule H, Line 4i - Schedule of Assets (Held at End of Year)

December 31, 2024

Identity of Issue, Borrower, Lessor or Similar Party	Description of Investment, including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	Cost	Current Value
Investments at fair value:			
Fidelity	Fid Mid Cap Index	(1)	\$ 603,730
Fidelity	Fid Small Cap Index	(1)	203,744
Nuveen	Nuveen Lc Index 2040	(1)	2,289,935
PGIM Investments	PGIM Jennison Intl Opps	(1)	24,554
Nuveen	Nuveen Lc Index 2045	(1)	2,760,855
Columbia Threadneedle	Col Seligman GI Tech Inst	(1)	901,999
Vanguard	Vanguard Util Idx Adm	(1)	106,767
JP Morgan	JPM Emerging Markets Equity	(1)	32,793
Nuveen	Nuveen Lc Index 2035	(1)	3,357,766
Fidelity	Fid 500 Ind	(1)	5,088,770
Nuveen	Nuveen Lc Index 2020	(1)	143,490
Dodge & Cox	Dodge & Cox Stock	(1)	434,794
Fidelity	Fid Us Bond Ind	(1)	211,150
Nuveen	Nuveen Lc Index 2015	(1)	138,053
Vanguard	Van Infl Protected Sec	(1)	31,923
Vanguard	Vanguard Sm Cap Val Index	(1)	209,237
Pacific Investment Management Company	PIMCO Income Fund	(1)	36,490
Nuveen	Nuveen Lc Index 2055	(1)	3,465,580
Nuveen	Nuveen Lc Index 2050	(1)	2,035,433
Nuveen	Nuveen Lc Index 2025	(1)	813,667
Vanguard	Vanguard Sm Cp Gr Idx	(1)	687,530
Clearbridge	Clearbridge Large Cap Gr	(1)	831,164
Vanguard	Vanguard Health Care Index	(1)	885,408
Nuveen	Nuv Lifecycle Idx	(1)	87,171
Vanguard	Vanguard Real Estate Index	(1)	165,699
Nuveen	Nuveen Lc Index 2030	(1)	1,095,045
Blackrock	Blackrock Midcap Growth	(1)	217,376
Virtus	Virtus D&P Water Inst	(1)	77,331
Allspring Global Investments	Allspring Special Mc Val	(1)	56,267
Vanguard	Vanguard Tot Intl Stk Ind	(1)	383,848
MetLife	MET GG Stable Value	(1)	1,036,966
Total investments at fair value			<u>28,414,535</u>
*Participant notes receivable	Loans bearing interest at rates ranging from 4.25% to 9.5%, to be repaid through 2029	-	28,037
Total assets held for investment purposes at end of year			<u><u>\$ 28,442,572</u></u>

* Represents a party-in-interest to the Plan.

(1) Cost information has been omitted, since these investments are participant-directed.

**SCHEDULE H
(Form 5500)**

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration
Pension Benefit Guaranty Corporation

Financial Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code).

▶ **File as an attachment to Form 5500.**

OMB No. 1210-0110

2024

This Form is Open to Public Inspection

For calendar plan year 2024 or fiscal plan year beginning and ending

A Name of plan	B Three-digit plan number (PN) ▶	
C Plan sponsor's name as shown on line 2a of Form 5500	D Employer Identification Number (EIN)	

Part I Asset and Liability Statement

1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. **Round off amounts to the nearest dollar.** MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.

Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash.....	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions	1b(1)		
(2) Participant contributions.....	1b(2)		
(3) Other	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)		
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other.....	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred.....	1c(4)(A)		
(B) Common	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property)	1c(6)		
(7) Loans (other than to participants).....	1c(7)		
(8) Participant loans	1c(8)		
(9) Value of interest in common/collective trusts	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts.....	1c(11)		
(12) Value of interest in 103-12 investment entities	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds)	1c(13)		
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
(15) Other.....	1c(15)		

		(a) Beginning of Year	(b) End of Year
1d	Employer-related investments:		
(1)	Employer securities.....	1d(1)	
(2)	Employer real property.....	1d(2)	
e	Buildings and other property used in plan operation.....	1e	
f	Total assets (add all amounts in lines 1a through 1e).....	1f	
Liabilities			
g	Benefit claims payable.....	1g	
h	Operating payables.....	1h	
i	Acquisition indebtedness.....	1i	
j	Other liabilities.....	1j	
k	Total liabilities (add all amounts in lines 1g through 1j).....	1k	
Net Assets			
l	Net assets (subtract line 1k from line 1f).....	1l	

Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

		(a) Amount	(b) Total
Income			
a	Contributions:		
(1)	Received or receivable in cash from: (A) Employers.....	2a(1)(A)	
	(B) Participants.....	2a(1)(B)	
	(C) Others (including rollovers).....	2a(1)(C)	
(2)	Noncash contributions.....	2a(2)	
(3)	Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)	
b	Earnings on investments:		
(1)	Interest:		
	(A) Interest-bearing cash (including money market accounts and certificates of deposit).....	2b(1)(A)	
	(B) U.S. Government securities.....	2b(1)(B)	
	(C) Corporate debt instruments.....	2b(1)(C)	
	(D) Loans (other than to participants).....	2b(1)(D)	
	(E) Participant loans.....	2b(1)(E)	
	(F) Other.....	2b(1)(F)	
	(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)	
(2)	Dividends: (A) Preferred stock.....	2b(2)(A)	
	(B) Common stock.....	2b(2)(B)	
	(C) Registered investment company shares (e.g. mutual funds).....	2b(2)(C)	
	(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)	
(3)	Rents.....	2b(3)	
(4)	Net gain (loss) on sale of assets: (A) Aggregate proceeds.....	2b(4)(A)	
	(B) Aggregate carrying amount (see instructions).....	2b(4)(B)	
	(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result.....	2b(4)(C)	
(5)	Unrealized appreciation (depreciation) of assets: (A) Real estate.....	2b(5)(A)	
	(B) Other.....	2b(5)(B)	
	(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)	

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts.....	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts.....	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		
c Other income	2c		
d Total income. Add all income amounts in column (b) and enter total.....	2d		

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers.....	2e(1)		
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other.....	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions).....	2g		
h Interest expense.....	2h		
i Administrative expenses: (1) Salaries and allowances.....	2i(1)		
(2) Contract administrator fees	2i(2)		
(3) Recordkeeping fees	2i(3)		
(4) IQPA audit fees.....	2i(4)		
(5) Investment advisory and investment management fees.....	2i(5)		
(6) Bank or trust company trustee/custodial fees.....	2i(6)		
(7) Actuarial fees.....	2i(7)		
(8) Legal fees.....	2i(8)		
(9) Valuation/appraisal fees.....	2i(9)		
(10) Other trustee fees and expenses.....	2i(10)		
(11) Other expenses.....	2i(11)		
(12) Total administrative expenses. Add lines 2i(1) through (11).....	2i(12)		
j Total expenses. Add all expense amounts in column (b) and enter total.....	2j		

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		
l Transfers of assets:			
(1) To this plan.....	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

- (1) Unmodified (2) Qualified (3) Disclaimer (4) Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

- (1) DOL Regulation 2520.103-8 (2) DOL Regulation 2520.103-12(d) (3) neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name:

(2) EIN:

d The opinion of an independent qualified public accountant is **not attached** because:

- (1) This form is filed for a CCT, PSA, or MTIA. (2) It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l. DCGs do not complete lines 4e, 4f, 4k, 4l, and 5, and DCGs generally complete the rest of Part IV collectively for all plans in the DCG, except as otherwise provided (see instructions.)

During the plan year:

	Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)	4a		
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)	4b		
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)	4c		
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)	4d		
e Was this plan covered by a fidelity bond?	4e		
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	4f		
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?	4g		
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?	4h		
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	4i		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)	4j		
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?	4k		
l Has the plan failed to provide any benefit when due under the plan?	4l		
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	4m		
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.	4n		

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year?..... Yes No
 If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) Yes No Not determined

If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____.

Attachment to 2024 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name BIONANO GENOMICS, INC. 401(K) PLAN
Plan Sponsor's Name BIONANO GENOMICS, INC.

EIN: 26-1756290
PN: 001

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current value
	PARTICIPANT LOANS	INTEREST RATES (4.25% TO 9.50%)		28,037
	FID MID CAP INDEX	REGISTERED INVESTMENT COMPANY		603,731
	FID SMALL CAP INDEX	REGISTERED INVESTMENT COMPANY		203,744
	NUVEEN LC INDEX 2040 R6	REGISTERED INVESTMENT COMPANY		2,289,935
	PGIM JENNISON INTL OPPS R6	REGISTERED INVESTMENT COMPANY		24,554
	NUVEEN LC INDEX 2045 R6	REGISTERED INVESTMENT COMPANY		2,760,855
	COL SELIGMAN GL TECH INST 3	REGISTERED INVESTMENT COMPANY		901,999

Attachment to 2024 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name BIONANO GENOMICS, INC. 401(K) PLAN
Plan Sponsor's Name BIONANO GENOMICS, INC.

EIN: 26-1756290
PN: 001

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current value
	VANGUARD UTIL IDX ADM	REGISTERED INVESTMENT COMPANY		106,767
	JPM EMERGING MARKETS EQUITY R6	REGISTERED INVESTMENT COMPANY		32,793
	NUVEEN LC INDEX 2035 R6	REGISTERED INVESTMENT COMPANY		3,357,766
	FID 500 IND	REGISTERED INVESTMENT COMPANY		5,088,771
	NUVEEN LC INDEX 2020 R6	REGISTERED INVESTMENT COMPANY		143,490
	DODGE & COX STOCK I	REGISTERED INVESTMENT COMPANY		434,794
	FID US BOND IND	REGISTERED INVESTMENT COMPANY		211,150

Attachment to 2024 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name BIONANO GENOMICS, INC. 401(K) PLAN
Plan Sponsor's Name BIONANO GENOMICS, INC.

EIN: 26-1756290
PN: 001

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current value
	NUVEEN LC INDEX 2015 R6	REGISTERED INVESTMENT COMPANY		138,053
	VAN INFL PROTECTED SEC - ADMR	REGISTERED INVESTMENT COMPANY		31,923
	VANGUARD SM CAP VAL INDEX ADM	REGISTERED INVESTMENT COMPANY		209,237
	PIMCO INCOME FUND - INSTL	REGISTERED INVESTMENT COMPANY		36,490
	NUVEEN LC INDEX 2055 R6	REGISTERED INVESTMENT COMPANY		3,465,580
	NUVEEN LC INDEX 2050 R6	REGISTERED INVESTMENT COMPANY		2,035,433
	NUVEEN LC INDEX 2025 R6	REGISTERED INVESTMENT COMPANY		813,667

Attachment to 2024 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name BIONANO GENOMICS, INC. 401(K) PLAN
Plan Sponsor's Name BIONANO GENOMICS, INC.

EIN: 26-1756290
PN: 001

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current value
	VANGUARD SM CP GR IDX -ADMIRAL	REGISTERED INVESTMENT COMPANY		687,530
	CLEARBRIDGE LARGE CAP GR IS	REGISTERED INVESTMENT COMPANY		831,164
	VANGUARD HEALTH CARE INDEX ADM	REGISTERED INVESTMENT COMPANY		885,408
	NUV LIFECYCLE IDX RET INC R6	REGISTERED INVESTMENT COMPANY		87,171
	VANGUARD REAL ESTATE INDEX ADM	REGISTERED INVESTMENT COMPANY		165,699
	NUVEEN LC INDEX 2030 R6	REGISTERED INVESTMENT COMPANY		1,095,045
	BLACKROCK MIDCAP GROWTH EQ K	REGISTERED INVESTMENT COMPANY		217,376

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(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current value
	VIRTUS D&P WATER INST	REGISTERED INVESTMENT COMPANY		77,331
	ALLSPRING SPECIAL MC VAL R6	REGISTERED INVESTMENT COMPANY		56,267
	VANGUARD TOT INTL STK IND ADM	REGISTERED INVESTMENT COMPANY		383,848
	MET GG SV 25554 - J	COMMON/COLLECTIVE TRUST		1,036,966