UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT Pursuant to Section 13 OR 15 (d) of The Securities Exchange Act of 1934

Date of Report (Date of Earliest Event Reported): February 6, 2023

OCUGEN, INC.

(Exact Name of Registrant as Specified in its Charter)

Delaware (State or Other Jurisdiction of Incorporation)

001-36751 (Commission File Number)

04-3522315 (I.R.S. Employer Identification Number)

11 Great Valley Parkway Malvern, Pennsylvania 19355 (484) 328-4701

(Address, including zip code, and telephone number, including area code, of principal executive office)

N/A (Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a–12 under the Exchange Act (17 CFR 240.14a–12)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:				
Title of each class	Trading Symbol(s)	Name of each exchange on which registered		
Common Stock, \$0.01 par value per share	OCGN	The Nasdaq Stock Market LLC		
		(The Nasdaq Capital Market)		

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company \Box

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 8.01 Other Events.

Attached as Exhibit 99.1 hereto and incorporated herein by reference is a presentation that Ocugen, Inc. will post on its website on February 6, 2023 and may use from time to time in presentations or discussions with investors, analysts, and other parties.

Item 9.01 Financial Statements and Exhibits.

The following exhibits are being filed herewith:

(d) Exhibits

Exhibit No.	Document
99.1	Ocugen, Inc. Presentation.
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).

SIGNATURE

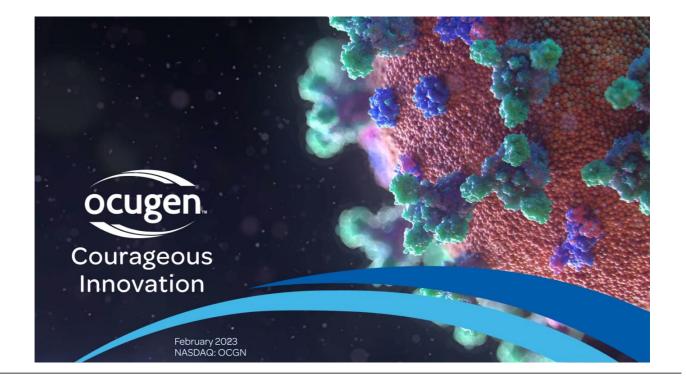
Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: February 6, 2023

OCUGEN, INC.

By: /s

/s/ Shankar Musunuri Name: Shankar Musunuri Title: Chief Executive Officer and Chairman



Forward Looking Statements

This presentation contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995, which are based on the beliefs and assumptions of Ocugen, Inc. and on information currently available to management. All statements contained in this presentation other than statements of historical fact are forwardlooking statements. We may, in some cases, use terms such as "predicts," "believes," "potential," "proposed," "continue," "estimates," "anticipates," "expects," "plans," "intends," "may," "could," "might," "will," "should," or other words that convey uncertainty of future events or outcomes to identify these forward-looking statements. Such statements are subject to numerous important factors, risks, and uncertainties that may cause actual events or results to differ materially from our current expectations. These and other risks and uncertainties are more fully described in our periodic filings with the Securities and Exchange Commission (SEC), including the risk factors described in the section entitled "Risk Factors" in the quarterly and annual reports that we file with the SEC. Forwardlooking statements that we make in this presentation are based on a combination of facts and factors currently known to us and speak only as of the date of this presentation. Except as required by law, we assume no obligation to update forward-looking statements contained in this presentation whether as a result of new information, future events, or otherwise, after the date of this presentation.



We're Here to Make an Impact Through Courageous Innovation

Mission: Developing cutting-edge innovations for people facing serious disease and conditions with a commitment to ensuring global market access

Pioneering modifier gene therapy for inherited retinal diseases, as well as larger blindness diseases with unmet need

Innovating a novel biologic to treat eye diseases that can lead to vision loss for millions of people



Developing vaccines to provide choice in the fight against COVID-19

Pursuing Regenerative Cell Therapy to treat serious conditions like articular cartilage lesions



Pipeline Overview

	Asset/Program			
Vaccines	COVAXIN™ (BBV152) SARS-CoV-2 virus	COVID-19	 EUA for adults in Mexico; EUA for 5 to 18-year-olds submitted Top line results show that the U.S. Phase 2/3 immuno-bridging and broadening clinical trial met both primary endpoints. Awaiting final data. 	
	OCU500 series Inhaled mucosal vaccine	COVID-19 & Flu	COVID-19 technology licensed from Washington University Phase 1/2 pending FDA discussions Partnering with CanSino Bio – novel delivery device	
Cell therapies (Regenerative Medicine)	NeoCart® (Autologous chondrocyte-derived neocartilage)	Treatment of Articular Cartilage Defects in the Knee	U.S. Regenerative Medicine Advanced Therapy (RMAT) designation Received concurrence from the FDA on Phase 3 clinical trial strategy Phase 3 clinical trial is planned to begin in early 2024	
Gene therapies	OCU400 ** AAV-hNR2E3	Gene mutation-associated retinal degeneration*	Completed dose escalation and established maximum tolerable dos (MTD) Encouraging safety profile to date	
		NR2E3 Mutation (RP)	Phase 1/2	
		RHO Mutation (RP)	Phase 1/2	
		CEP290 Mutation (LCA)	Phase 1/2	
	OCU410 AAV-hRORA	Dry Age-Related Macular Degeneration (Dry AMD)*	IND planned for Q2 2023	
	OCU410ST AAV-hRORA	Stargardt disease (orphan disease)	IND planned for Q2 2023	
	OCU200 Transferrin - Tumstatin	Diabetic Macular Edema	IND planned for Q1 2023	
		Diabetic Retinopathy	IND-enabling	
		Wet Age-Related Macular Degeneration (Wet AMD)	IND-enabling	

OCU500 COVID-19 Mucosal Vaccine

Exclusive license agreement with Washington University to develop, manufacture and commercialize its proprietary vaccine in the United States, Europe, Japan and other major markets

OCU500 Intranasal Mucosal Vaccine for COVID-19 & Seasonal Flu

- Potential to generate rapid local immunity in the upper airways, and lungs - where SARS-CoV-2 and seasonal fluenters and infects the body
- Shown to generate neutralizing IgG, mucosal IgA, and T cell
 responses to help reduce transmission rate of COVID-19
- Mucosal immunity has been demonstrated as a potential way to prevent infection and spread of COVID-19, which contributes to the evolution of new variants
- This approach represents a **potential universal booster**, regardless of previous COVID-19 vaccination
- Quadrivalent flu formulation intended to cover multiple
 seasonal flu strains

Other features include:

- 1st Inhaled vaccine
- Non-invasive
- Needle-free administration
- Potential for increased compliance
- Scalable manufacturing
- Stored and shipped at standard refrigerated conditions
- Potential to develop multi-strain and variant specific versions



Licensed Mucosal COVID-19 Vaccines Have Been Well-Tolerated and Demonstrated Efficacy as a Heterologous Booster in Phase 3 Trials

Studies demonstrating the benefit of AAV

Bharat Biotech: ChAd-Nasal Dropper

Ph3 (N=2160): Superior Immune Response

- iNCOVACC[®](N=3000) vs
- COVAXIN[™] (N=160)

Improved Immunogenicity in Ph3: iNCOVACC vs. COVAXIN

- Superior GMT ratio of nAb for Wuhan (1.45)
- Superior GMT ratio of nAb for OmicronBA.5 (2.1)
- GMT ratio for secretory IgA in saliva (1.3)

Improved Safety in Ph3: iNCOVACC vs. COVAXIN

• Systemic AEs 2.7% (INCOVACC) vs. 6.2% (COVAXIN)

- Nasal reactions 4.9% (INCOVACC)
- Injection reactions 23% (COVAXIN)

References: https://papers.srn.com/sol3/papers.cfm?abstract.jd=4342771 https://doi.org/10.100//C022.03.08.22271816 https://doi.org/10.1002/20221751.2022122751.20221232881 https://www.thelancet.com/journals/lances/article/PliS2213-2600(22)00087-X/fulltext NCTOS17642 NCTOS124561

CanSino Bio: Ad5-Nebulizer/Inhaled

Five booster studies Ph 3 (SeiHOPE trial): N=13000 Dose : 1/5 of IM dose

Improved Immunogenicity:

- Cross protection against Omicron with heterologous booster
- Produced T-cell responses higher than IM route
- Significantly higher neutralizing antibody responses to WT and Omicron BA1 compared with inactivated vaccine
- Improved serum IgA antibody titers vs. inactivated and subunit vaccines for BA4/5

Improved Safety: iNCOVACC vs. Inactivated Vaccine

Significantly lower number of injection site reactions vs. inactivated vaccine

COVAXINTM (BBV152) A whole-virion inactivated COVID-19 vaccine candidate licensed from Bharat Biotech (BBIL) for North American Markets

Why COVAXIN[™] (BBV152)? Designed to augment our North American arsenal of vaccines against COVID-19

DESIGNED FOR BROAD SPECTRUM IMMUNE RESPONSE

- Adult and pediatric phase 2/3 data suggest both humoral & cellular responses generated against multiple viral proteins
- Data support that the vaccine induces a Th1 response (cell-mediated immunity), which can be vital for durable protection

KNOWN SAFETY PROFILE USING VERO CELL PLATFORM

 Data demonstrate strong safety profile
 within adult and pediatric populations Similar technology platform used to produce Polio, Influenza and Rabies vaccines

Phase 3 data suggest prevention of hospitalizations caused by COVID-19 Booster dose provides robust neutralizing antibody responses against Omicron and Delta variants

TRANSPORTATION AND STORAGE EASE

 10 dose vial that can be stored and shipped at 2°- 8° C with an expected 2-year shelf life and 6-month stability at room temperature

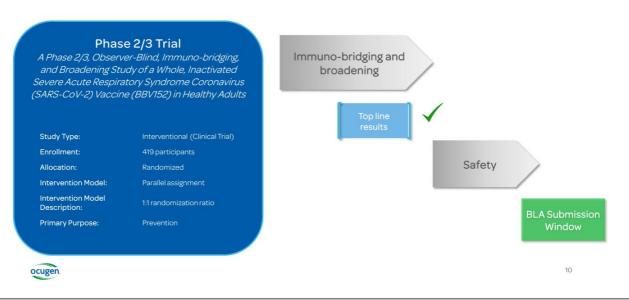
RESULTS SHOW PREVENTION OF

SEVERE COVID-19 DISEASE





Pathway for COVAXIN[™] (BBV152) Development



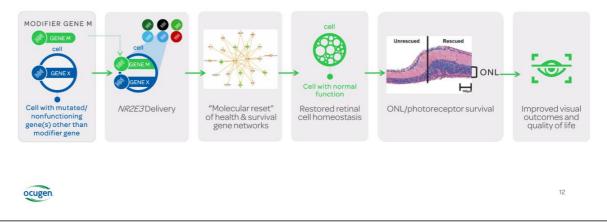
MODIFIER GENE THERAPY PLATFORM

Breakthrough technology designed to address many rare diseases as well as complex diseases that affect millions

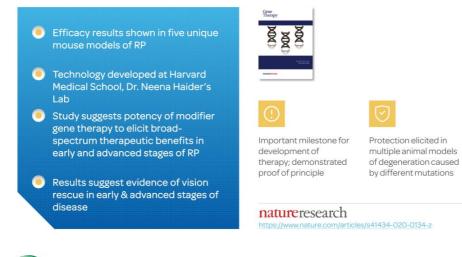
Modifier Gene Therapy: A Broader Reach

Gene modifier therapy can potentially address multiple genetic defects with a single product utilizing a gene agnostic approach.

In patients with IRDs, this could mean:



Proof of Principle: Published in Nature Gene Therapy





Potential to represent first broad-spectrum gene agnostic therapy and provide rescue even after disease onset

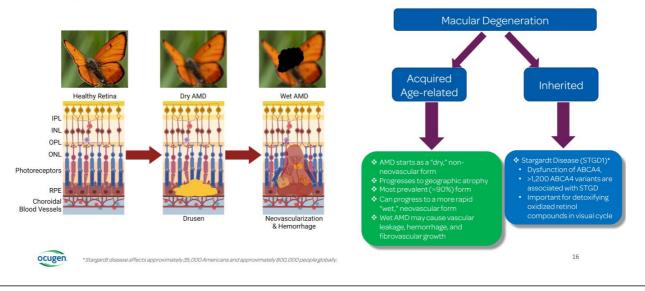
OCU400 Phase 1/2 U.S. Clinical Trial Progress

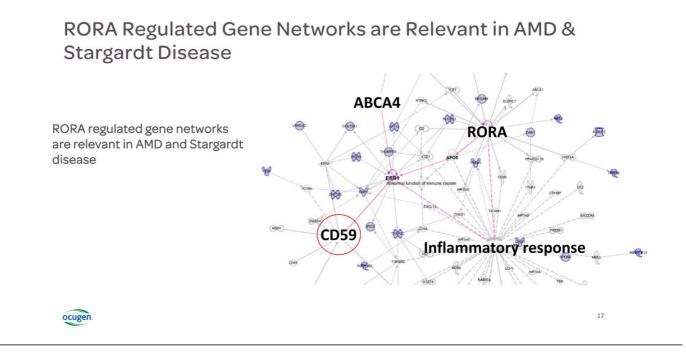
c	DCU400			
Pigmentosa Associated with	afety and Efficacy of OCU400 for Retinitis NR2E3 and RHO Mutations and Leber vith Mutations(s) in CEP290 Gene	Cohort 1	Cohort 2	Cohort 3
NCT:	05203939			
Study Type:	Interventional (Clinical Trial)	Low dose	Medium dose	High dose
Estimated Enrollment:	21 participants			
Clinical Trial Sites:	Seven	First dose	First dose	First dose
Allocation:	Non-randomized	March 2022	August 2022	October 2022
Intervention Model:	Sequential assignment			
Masking:	None (Open Label)			
Primary Endpoint: Observational endpoint	Safety Efficacy (structural, functional, BCVA, mobility)			
Dosing:	Escalation study involving low, medium, high doses	 More than 70% enrolled Dose escalation completed & MTD established (high dose) Encouraging safety profile to date 		
		 Expected efficacy 		
gen.		,	0	

OCU400 Expected Pathway to Clinical Development & Potential Approval



Age-related Macular Degeneration(AMD) Stargardt Disease (STGD)



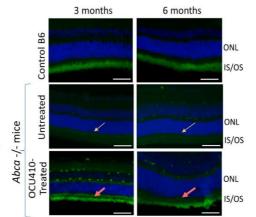


OCU410 Restores Anti-Complement (Cd59) Expression in Abca4-/- mice

- Gene variants of ABCA4 are associated with both Stargardt disease and AMD
- Very low CD59 (anticomplement) expression in *ABCA4-*/- mice retinas
- OCU410 restored CD59
 expression in the RPE cells

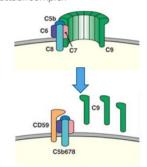
ocugen

 CD59 prevents the formation of the complement membrane attack complex (MAC) and subsequent retina damage

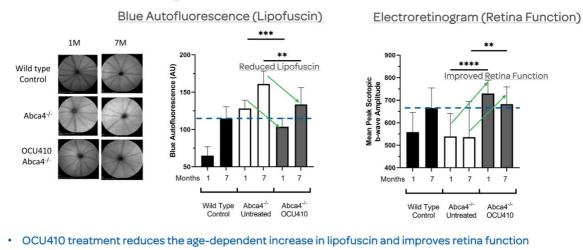


Immunohistochemistry of retina showing CD59 and DAPI

CD59 prevents the formation of the complement membrane attack complex



OCU410 Restoring Retinal Function in ABCA4 -/- Mice



• Targeting IND for Geographic Atrophy & Stargardt disease in Q2 2023

ocugen. p-value: **<0.01; ***<0.0001

OCU200

Novel biologic for treating Diabetic Macular Edema (DME), Diabetic Retinopathy (DR) and Wet Age-Related Macular Degeneration (Wet AMD)

OCU200 Potential to Treat DME, DR & Wet AMD





NeoCart[®] Regenerative Cell Therapy

Knee injury increases risk of developing OA by more than 5x 1MM+ annual arthroscopic procedures of the knee*

Phase 3 Clinical Trial Planned to Begin Early 2024

Attributes:

- Designated by FDA as "Regenerative Medicine Advanced Therapy"
- Combines breakthroughs in bio-engineering and cell processing to enh
- proces
- Merges a patient's own cells with a fortified 3-D scaffold designed to accelera
- Patients receive functional cartilage at the time of treatme

Follow-up Arthroscopy Demonstrates NeoCart® Progression and Integration**



Ocugen[™]Vision

Fully integrated, patient-centric biotech company focused on vaccines in support of public health and gene and cell therapies targeting unmet medical needs through **Courageous Innovation**



