UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 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): November 9, 2023

KIORA PHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter) Delaware

(State or other jurisdiction of incorporation)

001-36672 (Commission File Number)

98-0443284 (IRS Employer Identification No.)

332 Encinitas Blvd. Suite 102 Encinitas, CA 92024

(858) 224-9600 (Registrant's telephone number, including area code)

(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:

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	KPRX	NASDAQ

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

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 7.01. Regulation FD Disclosure.

Kiora Pharmaceuticals, Inc. (the "Company") hereby furnishes the updated investor presentation attached as Exhibit 99.1 to this Current Report on Form 8-K, which the Company may use in presentations to investors from time to time.

The information furnished pursuant to Item 7.01, including Exhibit 99.1, shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act") and will not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, except to the extent that the Company specifically incorporates it by reference.

The information furnished in this report, including Exhibit 99.1, shall not be deemed to constitute an admission that such information or exhibit is required to be furnished pursuant to Regulation FD or that such information or exhibit contains material information that is not otherwise publicly available. In addition, the Company does not assume any obligation to update such information or exhibit in the future.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Exhibit

Number	litte
<u>99.1</u>	Company Presentation
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).

*Schedules and exhibits have been omitted pursuant to Item 601(a)(5) of Regulation S-K. The registrant hereby undertakes to furnish copies of any of the omitted schedules and exhibits upon request by the U.S. Securities and Exchange Commission.

SIGNATURES

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 thereunto duly authorized.

KIORA PHARMACEUTICALS, INC.

By: /s/ Melissa Tosca Melissa Tosca

Executive Vice President of Finance (Principal financial and accounting officer)

Date: November 9, 2023



Kiora Pharmaceuticals, Inc. NASDAQ: KPRX

Q4 2023 | Corporate Overview





Forward Looking Statements

Some of the statements in this presentation are "forward-looking" and are made pursuant to the safe harbor provision of the Private Securities Litigation Reform Act of 1995. These "forward-looking" statements include statements relating to, among other things, the development and commercialization efforts and other regulatory or marketing approval efforts pertaining to Kiora's development-stage products, including KIO-301 and KIO-104, as well as the success thereof, with such approvals or success may not be obtained or achieved on a timely basis or at all, the potential ability of KIO-301 to restore vision in patients with RP, the expecting timing of enrollment, dosing and topline results for the ABACUS study, the ability to develop KIO-301 for Choroideremia and Stargardt Disease and KIO-104 for posterior non-infectious uveitis, the ability to utilize strategic relationships to develop certain product candidates, Kiora's ability to draw on its equity line of credit, and Kiora's ability to achieve the specific milestones described herein. These statements involve risks and uncertainties that may cause results to differ materially from the statements set forth in this presentation, including, among other things, the ability to conduct clinical trials on a timely basis, the ability to obtain any required regulatory approvals, market and other conditions and certain risk factors described under the heading "Risk Factors" contained in Kiora's Annual Report on Form 10-K filed with the SEC on March 23, 2023, or described in Kiora's other public filings. Kiora's results may also be affected by factors of which Kiora is not currently aware. The forward-looking statements in this presentation speak only as of the date of this presentation. Kiora expressly disclaims any obligation or undertaking to release publicly any updates or revisions to such statements to reflect any change in its expectations with regard thereto or any changes in the events, conditions, or circumstances on which any such statement is based, except as required by law.





JAMA Ophthalmol Oct 2016: 134(10)



Product	Indication	Development Stage			Prevalence*	
Route of Delivery	Indication	Pre-clinical	Phase 1	Phase 2	Phase 3	(US, EU5, JP)
KIO-301 Intravitreal	Retinitis Pigmentosa (Mutation Agnostic)	Granted Orphan Dru	g Designation (USA) -	Mar 2022		250,000
	Choroideremia					16,000
	Stargardt Disease					99,000
KIO-104 Intravitreal	Posterior Non-Infectious Uveitis	Granted Orphan Dru	g Designation (EU) –	May 2015		180,000

* Approximate 2023 populations. Orpha.net, NORD, Ophthalmol Ther 2021 Sep: 10(3)





KIO-301

Small Molecule Targeting Vision Restoration Retinitis Pigmentosa, Choroideremia, Stargardt Disease







Retinitis Pigmentosa A Disease with No Available Treatments

Clinical Presentation

- Night blindness, reduced visual field range and eventual loss of central vision
- Visual acuity declines
- 50% of patients are not qualified to drive by age 37 and legally blind by 55

Etiology

- 50+ genetically distinct subtypes from 150+ mutations
- Inherited disease

Market Opportunity

- ~100k patients in US (Provider: Retina Specialists [~3k])
- Estimated total cost to US healthcare system in 2019: \$3.7B

IOVS: Visual Field Progression in Retinitis Pigmentosa, American Academy of Ophthalmology, Clinical Ophthalmol 2021:15, 2855-2866

Normal Vision

Vision Declines over Time

KIO-301 Reanimates the Retina & Changes Behaviour Extensive Validation in Preclinical Models





KIO-301-1101: Phase 1b Study Design (ABACUS) Open Label, Single Ascending Dose Trial – 2 Sites (Australia)







Videos also available at: https://kiorapharma.com/technology/kio-301/

VA - Visual Acuity, NLP - No Light Perception, CF - Counting Fingers, HM - Hand Motion

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Kinetic Visual Field (Goldmann Perimetry)









— Visual Acuity — Berkeley Rudimentary Vision Test (BRVT)





Light Perception (Intensity & Contrast Assessment)



Aim: Evaluate Light Perception at a Basic Level

Assessment:

- Series of visual stimuli (a series of letters are presented on a screen to the patient via a rear projector)
- Binary outcome (yes/no)
- The subject is asked to acknowledge (verbally and/or physically) when a change in light is perceived
- Asked to also identify object, if possible

Light Perception – Cohort 1 KIO-301 May Improve Light Perception in the NLP/BLP Population



Cohort 1 includes 3 patients (6 eyes), NLP – No Light Perception, BLP – Bare Light Perception *Int J Retin Vitr 2016:2, 21





Functional Vision - Multiluminance Orientation & Mobility (MLOM)





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Functional Vision - Multiluminance Orientation & Mobility (MLOM) KIO-301 May Improve Functional Vision





Visual Function Questionnaire (NEI VFQ-25) KIO-301 May Improve Patients' Overall Quality of Life

Quality of Life Survey



Quality of Life

National Eye Institute generated survey assesses daily functions related to general health & vision, ocular pain, near & distance activities, social functioning, mental health, dependency, driving, color vision, and peripheral vision.

2-4 point increase is considered clinically meaningful*

N=12 * HMSA Medical Policy – Luxturna - 2016







NLP - No Light Perception, BLP - Bare Light Perception, CF - Counting Fingers



ABACUS-1 Takeaways





KIO-301-2101: Phase 2 Study Design (ABACUS-2) Sham Controlled, Masked, Randomized, Multiple Ascending Dose Trial – 4 Sites (Australia)

Key Elements	Study Design ABACUS-2 • Controlled • N=20 patients • Includes higher dose* (100µg)	 Multiple injections over 3 months Binocular injections Open label extension for controls Endpoints incorporating US FDA feedback
Cohort 1A Cohort 1B Open Label Extension	5 RP pts with NLP randomized to receive 50µg KIO-301 or sham (3:2) OU monthly for 3 months 5 RP pts with LP randomized to receive 50µg KIO-301 or sham (3:2) OU monthly for 3 months Patients randomized to control will be eligible to receive 50µg KIO-301 OU monthly for 3 months	
Cohort 2A Cohort 2B Open Label Extension	5 RP pts with NLP randomized to receive 5 RP pts with LP randomized to receive Patients randomized to control will be el	e 100µg KIO-301 or sham (3:2) OU monthly for 3 months 100µg KIO-301 or sham (3:2) OU monthly for 3 months igible to receive 100µg KIO-301 OU monthly for 3 months

*Subject to ongoing nonclinical tox results



Choroideremia: Inherited Disease that Leads to Blindness

No Approved Therapeutics and Only ONE Active Therapeutic Clinical Trial*





The Choroideremia Research Foundation (CRF) is the largest global not-for-profit organization focused on the search for a cure for Choroideremia (CHM).



Choroideremia: Inherited Disease that Leads to Blindness

No Approved Therapeutics and Only ONE Active Therapeutic Clinical Trial*



Foundation Fighting Blindness, Makari Wellness

- Orphan Disease: prevalence of 1:10,000
 ~30,000 patients in US
- Autosomal recessive disease inherited from parent carriers, typical onset in 2nd decade of life, vision loss in 4th-5th decade
- Cause: Mutation in the ABCA4 or ELOVL4 gene
- Accumulation of lipofusion plaques in the retinal pigment epithelium (RPE), leading to inflammation and cell death
- Vision Loss: Degeneration of the photoreceptors and RPE. Retinal ganglion cells remain viable. Often, some peripheral vision is retained.



KIO-301-3101: Phase 2 Study Designs (CHM & Stargardt) Sham Controlled, Randomized Clinical Trial – Australia





KIO-104

Intravitreal Small Molecule DHODH Inhibitor Steroid Sparing Approach to Retinal Inflammation



DHODH - dihydroorotate dehydrogenase

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Non-Infectious Uveitis

Uveitis is a group of eye disorders affecting the uvea and characterized by intraocular inflammation that is often chronic, can flare up at any time, and can lead to visual impairment and vision loss.

Clinical Symptoms	Statistics
 Redness and pain in the eye 	${\bf \sim}15\%$ of all cases of legal blindness and visual handicap in the US and EU
 Sensitivity to light 	~25% of all cases of blindness globally
 Blurred vision 	~20% posterior segment manifestation of uveitis
 Dark floating spots in the vision 	6.9% CAGR 2020-2027
 Vision loss 	20-50 years old most common age affected in the United States
Dark floating spots in the visionVision loss	6.9% CAGR 2020-202720-50 years old most common age affected in the United States

Significant unmet need for a steroid sparing approach

Br J of Ophthalmol 2004/88(9), 1159-1162. Med Hypothesis Discov Innov Ophthalmol 2013 Winter:2(4), 113-120. Retina Today 2016:47-51. Clin Ophthalmol 2016:10, 1983-2020. 31 | 🕵 KIORA



KIO-104-1101: Phase 1 Study Design





KIO-104 Improves VA and CME After Single IVT Dose





[‡]40% of eyes with vision threatening cystoid macular edema at baseline had clinically meaningful improvement

* Historical Controls (Yeh et al, Retina 00 2018: 1-9, Suhler et al, Visual III Ophthalmology 2018:125, 7) IVT - Intravitreal

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CORPORATE OVERVIEW









Carmine Stengone







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Contact:

info@kiorapharma.com