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): December 10, 2013

Ohr Pharmaceutical, Inc.

(Exact name of registrant as specified in its charter)

Delaware	333-88480	#90-0577933			
(State or other Jurisdiction of Incorporation)	(Commission File Number)	(IRS Employer Identification No.)			
489 5th Ave, 28th Floor, New York, N	Y	10017			
(Address of Principal Executive Offices	s)	(Zip Code)			
Registran	t's telephone number, including area code: (212)-682-8	3452			
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:					
${\pounds}$ Written communications pursuant to Rule 425 under the Secu	rities Act (17 CFR 230.425)				
£ Soliciting material pursuant to Rule 14a-12 under the Exchange	ge 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))					

ITEM 7.01. Regulation FD Disclosure.

Ohr Pharmaceutical Inc. (the "Company") will be making a presentation to potential investors and executives at the Oppenheimer 2th Annual Healthcare Conference on December 10, 2013 at 11:30am EST. The slide address is attached to this Current Report on Form 8-K as exhibit 99.1. The slide address will provide those in attendance with, among other things, an update on our active clinical development programs, the Company's business outlook, select financial and operational metrics, and expected milestones for 2014. The slide address will be available at www.ohrpharmaceutical.com

The information contained herein is being furnished pursuant to Item 7.01 of Form 8-K, "Regulation FD Disclosure." This information shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

Exhibit No. Description

99.1 Ohr Pharmaceutical Slide Deck for Oppenheimer Healthcare Conference Presentation, December 10, 2014

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 hereunto duly authorized.

OHR PHARMACEUTICAL, INC.

Dated: December 10, 2013 By: /s/ Irach Taraporewala

By: /s/ Irach Taraporewala
Name: Dr. Irach Taraporewala
Title: President and CEO



December 10, 2013



Safe Harbor Statement

This presentation contains forward-looking statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995. These forward looking statements are made only as the date thereof, and Ohr undertakes no obligation to update or revise the forward looking statement whether as a result of new information, future events or otherwise. Our actual results may differ materially and adversely from those expressed in any forward-looking statements as a result of various factors and uncertainties, including the future success of our scientific studies, our ability to successfully develop products, rapid technological change in our markets, changes in demand for our future products, legislative, regulatory and competitive developments, the financial resources available to us, and general economic conditions. For example, there can be no assurance that Ohr will be able to sustain operations for expected periods. Shareholders and prospective investors are cautioned that no assurance of the efficacy of pharmaceutical products can be claimed or assured until final testing; and no assurance or warranty can be made that the FDA will approve final testing or marketing of any pharmaceutical product. Ohr's most recent Annual Report and subsequent Quarterly Reports discuss some of the important risk factors that may affect our business, results of operations and financial condition. We disclaim any intent to revise or update publicly any forward-looking statements for any reason.



Company Overview

- Founded in late 2008, public (NasdaqCM: OHRP)
- Executed on strategy to acquire late stage clinical programs in 2009 that address large unmet medical needs: wet-AMD & cancer cachexia
 - Wealth of preclinical and clinical data
 - Clear competitive path forward
 - Risk mitigation
- Experienced management team headquartered in New York, NY
- Strong intellectual property protection
- · Tight expense controls
- · Unknown story with several upcoming catalysts



Drug Pipeline

	Preclinical	Phase 1	Phase 2	Phase 3
SQUALAMINE				
Eye-drop formulation WET AGE RELATED MACULAR DEGENERATION	FDA Fast T	rack	7	
IV formulation RESISTANT OVARIAN CANCER	Orphan Dr	ug Designatio	n 📜	
OHR / AVR 118				
CANCER CACHEXIA*)	nedicinalization permenenta		
TRODUSQUEMINE				
UNDISCLOSED INDICATION	<u> </u>			

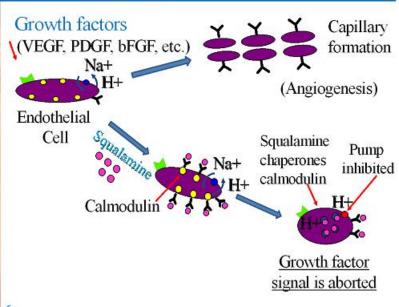


Squalamine

- First-in-class small molecule anti-angiogenic drug with a novel intracellular mechanism of action.
- · Inhibitor of multiple angiogenic growth factors
 - · VEGF, PDGF, and bFGF
- Ohr Pharmaceutical has developed a proprietary eye drop formulation using FDA approved excipients
 - Biodistribution studies show ability of the drug to reach the back of the eye at concentrations that can inhibit neovascularization.
 - Practical delivery method that is superior to IV administration.
 More convenient and less painful than intravitreal injections.
 - · Favorable safety profile
- · Development pathway
 - . Eye drops for Wet-AMD and neovascular eye diseases
 - · Granted Fast Track Designation by US FDA for Wet-AMD
 - · Phase 2 in Wet-AMD ongoing (n= 120), interim data expected 2Q-2014



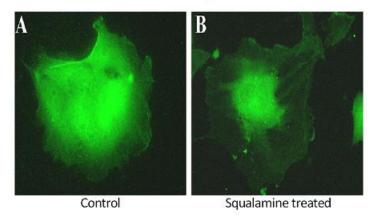
Anti-Angiogenic Mechanism





Squalamine Chaperones Calmodulin

After Entry into Activated Endothelial Cells, Squalamine and Calmodulin Bind, and the Complex is Transported to a Perinuclear Membrane Compartment



FITC (green fluorescence) labeled anti-calmodulin antibody



Squalamine Ophthalmic Snapshot

- · Phase II development proceeding with eye drop administration
- Previously studied in over 450 patients using an intravenous formulation
 - ~250 patients with Wet-AMD
 - · ~200 oncology patients (solid tumors, ovarian, lung, and prostate cancers)
- Intravenous clinical data in Wet-AMD
 - · Demonstrated biological effect
 - · Gains in visual acuity
 - · Strong maintenance of vision
 - · Effect in advanced, low vision wet-AMD ("fellow eye")
- IV formulation entered phase III trials for wet-AMD under fast track status and a Special Protocol Assessment (US FDA)
 - Discontinued due to enrollment difficulty of chronic IV infusion and suboptimal dosing/pharmacokinetics of systemic administration



Eye Drop Solves IV Drawbacks

IV Drawbacks

- Suboptimal dosing-Pharmacokinetic analysis confirms that prior IV dosing was suboptimal especially when going from a weekly to monthly "maintenance" dosing period
- Patient compliance- 40 minute weekly infusion very burdensome on elderly patient population
- Commercial challengesophthalmologist offices not equipped to give large scale prolonged infusions
- Infusion site reactions- Due to rapid infusion rates

Eye Drop Advantages

- Sustained Therapeutic Levels-In vivo studies confirm tissue concentrations well in excess of the antiangiogenic level and can consistently stay above threshold levels
- Self administered eye drop
- No Ophthalmologist infrastructure build out to accommodate large scale IV infusions
- Negligible systemic uptake and topical dosing is orders of magnitude lower than previous IV MTD

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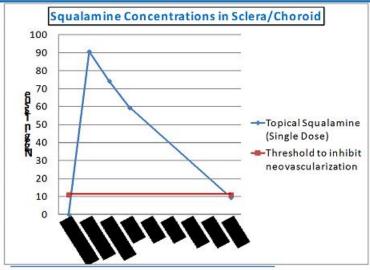


Squalamine Eye Drop Formulation

- Proprietary reformulation using FDA approved excipients
- In-vivo studies in Dutch belted rabbits
 - 28 day ocular tolerance and toxicity
 - Demonstrated safety and tolerability to ocular tissues
 - · No macroscopic or histopathology changes
 - Biodistribution study- single dose
 - Peak concentrations 8x the threshold level to inhibit choroidal neovascularization
 - Biodistribution study- QD & BID up to 14 days
 - Results presented at ARVO & Macula Society- 2012
 - 6 month BID ocular tolerance and toxicity
 - · No adverse findings



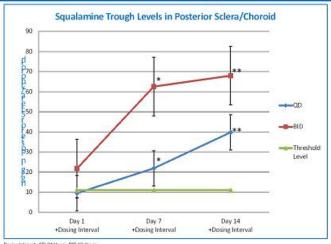
Eye Drop Single Administration



Threshold level refers to tissue concentrations above which Squalamine is known to inhibit neovascularization



Eye Drop Multi Dose Trough Levels



Dosing Interval+ GD 24 Hours, 610 12 Hours
"mp-value < 0.01 (values visiday 1+Dosing Interval)

Trough levels represent lowest tissue concentrations prior to next dosing (QD 24h, BID 12h)

Presented at ARVO and Macula Society 2012. Full poster can be found at 12 http://ohrpharmaceutical.com/ARVO%20poster%20FINAL.pdf



Risk Mitigation

IV Clinical Data Demonstrated Activity

Visual Acuity Gains Maintenand

Maintenance of VA Biological Effect



....Even while being dosed suboptimally....

Rapid systemic clearance

Lack of sustained concentrations



Data demonstrates the eye drop achieves

Sustained inhibitory concentrations

Efficient delivery to back of the eye tissues



Competitive Advantages

Potential advantages over intravitreal injections ("IVT") for Wet-AMD

Superior delivery method

 Current approved therapies are delivered via intravitreal injection directly into the eye every four to eight weeks.

Inhibition of Multiple Angiogenic Growth Factors

 Clinical evidence has shown that inhibiting VEGF <u>and</u> PDGF provides improvement over Lucentis VA gain response rates.

Activity in advanced AMD cases

 Many Wet-AMD patients have a more advanced, low vision wet AMD eye ("fellow eye"). Squalamine clinical data has shown significant VA improvement in these fellow eyes using the IV formulation.

Safety profile

- Squalamine had minimal systemic or ocular drug-related adverse events when tested using the IV formulation at much higher doses.
- Cost effective manufacture

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Topical Path Forward

- Phase II trial designed by KOL's in the wet-AMD space
- Trial focuses on newly diagnosed wet-AMD patients
 - Randomized, double masked, placebo controlled study (n=120) at 20+ US Sites
- · Trial design includes anti-VEGF treatment (Lucentis) as needed
 - Helps facilitate enrollment while providing clear indication of efficacy
- Design provides for multiple outcome scenarios to guide the path forward in future registration studies
 - Monotherapy
 - Adjunct therapy

Less
frequent
injections

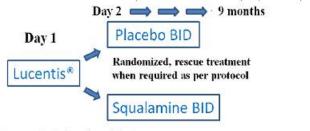
Better VA
Outcome
(Multi growth factor
inhibition)

15 Clinical Phase II trial began enrolling in late 2012 for wet-AMD



Phase II Trial Design

- Newly diagnosed wet-AMD patients
- Duration: 9 month treatment period with interim analysis (50% completed)



- Rescue criteria based on objective parameters
- Efficacy Endpoints (10 endpoint hierarchical analysis)
 - 1°: Mean number of Lucentis injections
 - 2°: Mean time to Lucentis retreatment
 - 2°: VA gains, maintenance, and safety
- Primary endpoint is powered (90%) to detect a 1.5 injection difference between the arms
- 60 patients per arm (120 total)
- 16 Interim Data anticipated in Q2 2014



Investigator Sponsored Trials

- Branch and Central Retinal Vein Occlusion (BRVO/CRVO)
 - 20 Patients
 - PI: Dr. John Wroblewski
- Proliferative Diabetic Retinopathy (PDR)
 - 5 patients
 - PI: Dr. Michael Elman



Ophthalmic Advisory Board

Key Opinion Leaders (KOL) in retinal disorders

- David Boyer MD
 - Retina-Vitreous Associates Medical Group (Los Angeles, CA)
- Thomas Ciulla MD
 - Midwest Eye Institute (Indianapolis, IN)
- Michael Elman MD
 - Elman Retina Group (Baltimore, MD)
- Jeffrey Heier MD
 - Ophthalmic Consultants of Boston (Boston, MA)
- Daniel Roth MD
 - Retina Vitreous Center (New Brunswick, NJ)
- Lawrence Singerman MD
 - Retina Associates of Cleveland (Cleveland, OH)
- Jason Slakter MD
 - Vitreous Retina Macula Consultants of NY (New York, NY)
- John Wroblewski MD
 - Cumberland Valley Retina Consultants (Hagerstown, MD)

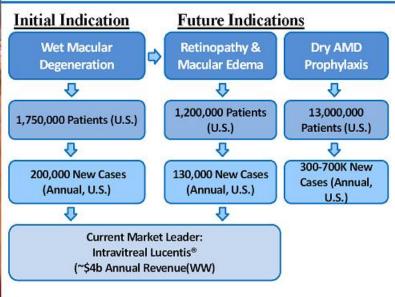


Competitive Landscape

	Squalamine	Lucentis®	Eylea®	Fovista®	Pazopanib	DARPin's
Developer	Ohr Pharmaceutical	Genentech/ Roche	Regeneron	Ophthotech	Glaxo	Molecular Partners
Mechanism	Intracellular	Extracellular	Extracellular	Extracellular	Intracellular	Extracellular
Target	VEGF, PDGF, bFGF	VEGF	VEGF	PDGF	Tyrosine Kinases	VEGF, VEGF &PDGF
Delivery	Eye Drops	Intravitreal	Intravitreal	Intravitreal	Eye Drops	Intravitreal
Dev. Stage	Phase II	FDA Approved	FDA Approved	Phase III	Phase II	Phase II & Preclinical
Molecule size	Small Molecule	Large molecule	Large molecule	Large molecule	Small molecule	Large Molecule
Cost/Dose	_	\$2,000	\$1,850	-	-	-
Revenue/ Partnership	170	\$4b ('12 global)	\$838mm ('12 U.S.)	-	=	\$1.4b deal with Allergan



Squalamine Markets





Corporate Strategy

Transition to core ophthalmology focus:

- Non-invasive delivery for back of the eye diseases including combination products
- Front of the eye diseases

In-license promising compounds to build pipeline

Out license or monetize non ophthalmology assets:

- OHR/AVR118 in cancer cachexia
- Trodusquemine and several analogs



Financial Highlights

Ticker	NasdaqCM: OHRP		
Recent Share Price (12-9-13)	\$8.02		
Market Capitalization (12-9-13)	\$158mm		
Average Daily Volume (30 day)	55k shares		
Cash on Hand (6-30-13)	\$6.05mm		
Cash Burn Per Quarter	~\$500-750K		
Shares outstanding (8-13-13)	19.7mm		
Fully Diluted (6-30-13)	26.9mm		

Cash on hand to fund operations through Q1 2015

Analyst Coverage

Jonathan Aschoff, Brean Capital



Investment Highlights

- 2 compounds in late stage development to address large unmet medical needs: wet-AMD & cancer Cachexia
- · Strong intellectual property protection
- Experienced Management Team
- Significant milestone events through 2014
 - Presentation of OHR/AVR118 phase II results at society for cachexia and wasting disorders conference (Dec. 2013)
 - Completion of enrollment in wet-AMD trial (Q1 2014)
 - o Interim data from wet-AMD eye drop trial (Q2 2014)
 - Publication of final trial results on resistant ovarian cancer orphan indication (median PFS, overall survival) (1H 2014)
 - Data from Squalamine eye drop Investigator sponsored trials (2014)
 - Final data from Wet-AMD eye drop clinical trial (Q4 2013)