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): April 30, 2014

MATINAS BIOPHARMA HOLDINGS, INC.

(Exact name of registrant as specified in its charter)

Delaware333-19345546-3011414(State or other jurisdiction
of incorporation)(Commission
File Number)(IRS Employer
ID Number)

1545 Route 206 South, Suite 302 Bedminster, New Jersey (Address of principal executive offices)

07921 (Zip Code)

Registrant's telephone number, including area code: (908) 443-1860

Not Applicable (Former name or former address, if changed since last report.)

any	Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under 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))

Item 7.01 Regulation FD Disclosure.

Matinas BioPharma Holdings, Inc. (the "Company") intends to use a slide presentation with certain investors during a conference held on April 30, 2014. The slide presentation is attached hereto as Exhibit 99.1.

In accordance with General Instruction B.2 of Form 8-K, the information in this Current Report on Form 8-K, including Exhibits 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"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Exchange Act or the Securities Act of 1933, as amended, except as shall be expressly set forth by specific reference in such a filing.

This Current Report on Form 8-K, including exhibit 99.1, contains "forward-looking statements" made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, including those relating to the Company's product development, clinical and regulatory timelines, market opportunity, cash flow and other statements that are predictive in nature, that depend upon or refer to future events or conditions. All statements other than statements of historical fact are statements that could be forward-looking statements. Forwardlooking statements include words such as "expects," "anticipates," "intends," "plans," "could", "believes," "estimates" and similar expressions. These statements involve known and unknown risks, uncertainties and other factors which may cause actual results to be materially different from any future results expressed or implied by the forward-looking statements. Forward-looking statements are subject to a number of risks and uncertainties, including, but not limited to, our ability to successfully complete research and further development and commercialization of MAT9001; our ability to obtain additional capital to meet our liquidity needs on acceptable terms, or at all, including the additional capital which will be necessary to complete the clinical trials for MAT9001; the uncertainties inherent in clinical testing; the timing, cost and uncertainty of obtaining regulatory approvals; our ability to protect the Company's intellectual property; the loss of any executive officers or key personnel or consultants; competition; changes in the regulatory landscape or the imposition of regulations that affect the Company's products; and the other factors listed under "Risk Factors" in our filings with the SEC, including Forms 10-K, 10-Q and 8-K. Prospective investors are cautioned not to place undue reliance on such forward-looking statements, which speak only as of the date of this presentation. Matinas does not undertake any obligation to release publicly any revisions to such forward-looking statement to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events. Matinas BioPharma's lead product candidate MAT9001 is in a development stage and is not available for sale or use.

All forward-looking statements are expressly qualified in their entirety by this cautionary notice. You are cautions not to place undue reliance on any forward-looking statements, which speak only as of the date of this Current Report on Form 8-K. We have no obligation, and expressly disclaim any obligation, to update, revise or correct any of the forward-looking statements, whether as a result of new information, future events or otherwise.

Item 9.01. Financial Statements and Exhibits

Exhibit	Description	
99.1	Slide Presentation, dated April 30, 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.

MATINAS BIOPHARMA HOLDINGS, INC.

Date: April 30, 2014

/s/ Roelof Rongen Roelof Rongen, President and Chief Executive Officer



Forward Looking Statement

This presentation contains "forward-looking" statements within the meaning of the Private Securities Litigation Reform Act of 1995, including those relating to the Company's product development, clinical and regulatory timelines, market opportunity, cash flow and other statements that are predictive in nature, that depend upon or refer to future events or conditions. All statements other than statements of historical fact are statements that could be forward-looking statements. Forward-looking statements include words such as "expects," "anticipates," "intends," "plans," "could", "believes," "estimates" and similar expressions. These statements involve known and unknown risks, uncertainties and other factors which may cause actual results to be materially different from any future results expressed or implied by the forward-looking statements. Forwardlooking statements are subject to a number of risks and uncertainties, including, but not limited to, our ability to successfully complete research and further development and commercialization of MAT9001; our ability to obtain additional capital to meet our liquidity needs on acceptable terms, or at all, including the additional capital which will be necessary to complete the clinical trials for MAT9001; the uncertainties inherent in clinical testing; the timing, cost and uncertainty of obtaining regulatory approvals; our ability to protect the Company's intellectual property; the loss of any executive officers or key personnel or consultants; competition; changes in the regulatory landscape or the imposition of regulations that affect the Company's products; and the other factors listed under "Risk Factors" in our filings with the SEC, including Forms 10-K, 10-Q and 8-K. Prospective investors are cautioned not to place undue reliance on such forward-looking statements, which speak only as of the date of this presentation. Matinas does not undertake any obligation to release publicly any revisions to such forward-looking statement to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events. Matinas BioPharma's lead product candidate MAT9001 is in a development stage and is not available for sale or use.





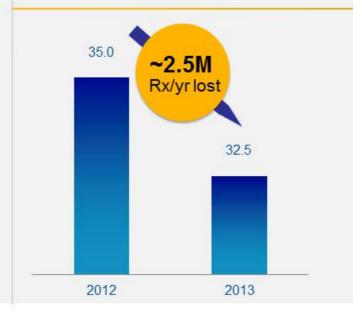




Lack of Good Prescription Options



US NON-LDL-LOWERING PRESCRIPTIONS – 2012 & 2013 Total Prescriptions TRX

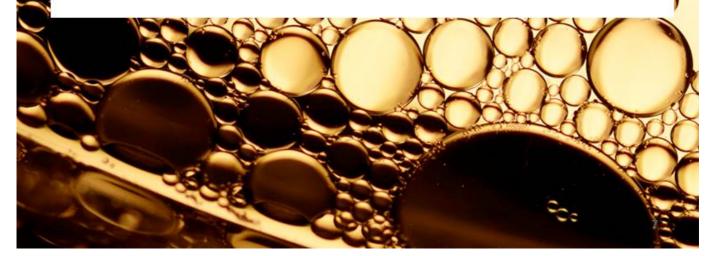




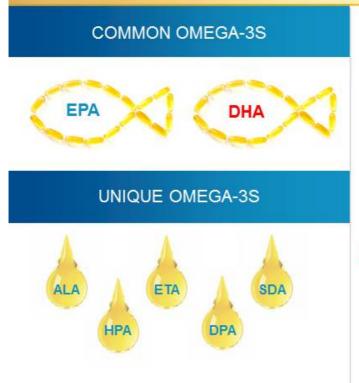
Source: IMS



Research shows strong evidence that Omega-3s lower triglyceride levels



Not all Omega-3s are the same:



Not all Rx Omega-3s are the same:

High DHA







DHA is associated with an increase in LDL cholesterol

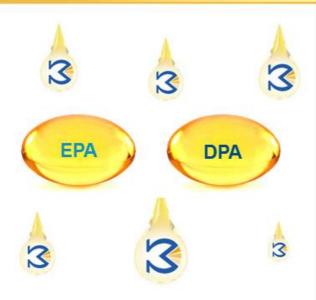
Low DHA







MAT9001 – Unique engineered Omega-3 composition



- Severe Hypertriglyceridemia (≥500mg/dL)
- Highest potency
- · Unique Mechanism of Action
- Trace amounts of DHA

SPECIFICALLY DESIGNED TO TREAT DYSLIPIDEMIA

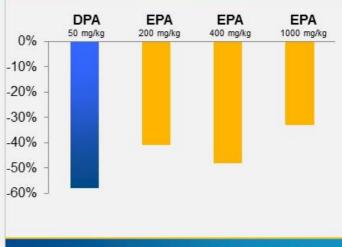


Quality by Design

Our targeted development activities and related clinical investigations may yield a stronger therapeutic profile compared to the currently-existing therapies.

FASTING TG REDUCTION IN "FATTY ZUCKER" RAT MODEL

Triglyceride Percent Reduction From Baseline - In Vivo



Percent reduction from baseline in "Fatty Zucker" rats after one week of dosing (n=8 per treatment group).

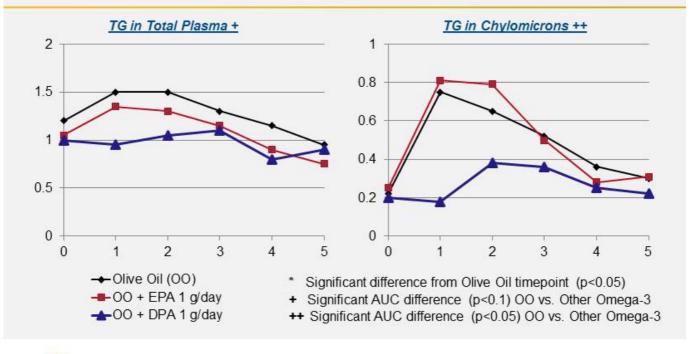


Source: Matinas BioPharma research; unpublished

Exploratory studies show potent effects on human triglyceride levels

DPA VERSUS EPA IN POSTPRANDIAL TG CONTROL IN HUMANS

Human Postprandial TG Levels (mmol/L) over 5 hours, after 7 days treatment (3-way cross-over, N=10)



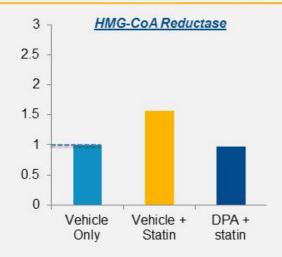


Source: Linderborg et al.; PLEFA (2013) 88, 313-319

Early data suggests synergy with statin usage

STATIN INDUCED GENE-EXPRESSION COMPENSATORY EFFECTS AND N-3 DOCOSAPENTAENOIC ACID (DPA)

Relative levels of mRNA for HMG-CoA Reductase and PCSK9 in Rat Liver - In Vivo





Relative mRNA expression levels in Rat liver after 4 weeks dosing (400 mg DPA/kg*day)



Source: Matinas BioPharma research; unpublished

MAT9001 Development Plan 2014 2015 2016 2017 API manufacturing, Animal Study and IND Comparative PK Phase III in patients with Severe HTG (TG≥ 500mg/dL) PK/Drug Interaction Studies Additional Phase III? SHORT TRACK TO PHASE III Solid Safety Record with Omega-3 Products



Management by Design

Roelof Rongen

- President and CEO

George Bobotas, PhD

- Chief Scientific Officer

Abdel Fawzy, PhD

 EVP Pharmaceutical & Supply Chain Development

Gary Gaglione, CPA

- VP Finance, Acting CFO

Jerome Jabbour, JD

 Chief Business Officer & General Counsel





Acquired by GlaxoSmithKline for \$1.65B in 2007



\$16M raised to date



Board of Directors with Strong Pharma Experience

Herbert Conrad, Chairman

- Former President, Hoffmann LaRoche Pharmaceuticals
- Co-Founder/Director: Reliant Pharmaceuticals
- Chairman: Pharmasset, GenVec, Sapphire, Bone Care
- Director: Celldex, Reliant, Dura, Sicor, Savient

Stefano Ferrari, Director

- Murami Pharma, Bioseutica/KD-Pharma (leading manufacturer of omega-3 concentrates)
- Prospa, Societa Prodotti Antibiotici (developed first omega-3 based medication)

James Scibetta, Director

- Current CFO Pacira, Bioenvision/Genzyme, Merrimack
- Director: Labopharm, Nephros

Adam Stern, Director

- Aegis Capital Corp. / CEO, SternAegis Ventures
- Director: Organovo, InVivo Therapeutics, Prolor Biotech, LabStyle

Roelof Rongen, Director

- Reliant, Abbott/BASF Pharma, e-FAT, EPAX/Trygg Pharma, The Wilkerson Group, Arthur D. Little

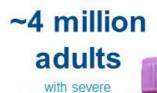


We See...

AN ATTRACTIVE MARKET...

WITH A CLEAR NEED...

AND ATTRACTIVE ECONOMICS



hypertriglyceridemia

Lack of Satisfactory Rx Options



~\$200/month
Lovaza/Vascepa pricing





Designed for Market Appetite







\$1.65B

Acquired by GSK from Reliant Pharmaceuticals Inc. in 2007

\$323M

Acquired by AstraZeneca in 2013 after completion of Phase III ~\$300M

Market cap



Also in our Omega-3 pipeline

MAT8800

Proprietary Omega-3
 Discovery Program

Treating Fatty Liver Disease

NAFLD

 Common: 30% of U.S. population

NASH

 A leading cause of cirrhosis



NO APPROVED
 TREATMENT OPTION

MAT9001

Dyslipidemia & cardiovascular indications

· Heart disease is the #1 killer





