

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: June 2, 2014
Commission file number 001-11602

APPLIED NANOTECH HOLDINGS, INC.
(Exact name of registrant as specified in its charter)

Texas
(State or other jurisdiction
of incorporation or organization)

76-0273345
(I.R.S. Employer
Identification No.)

3006 Longhorn Boulevard, Suite 107, Austin, Texas 78758
(Address of principal executive offices) (Zip Code)

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))
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Item 7.01 Regulation FD Disclosure.

On June 2, 2014 we issued a joint press release with Nanofilm Ltd. about the filing of preliminary proxy materials related to our proposed business combination. The press release is attached hereto as Exhibit 99.1 and incorporated herein by this reference.

The information contained in the press release attached hereto is being furnished and shall not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liability of that Section, and shall not be incorporated by reference into any registration statement or other document filed under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Item 8.01 Other Events

Item 9.01 Financial Statements and Exhibits.

99.1 Joint Press Release of Applied Nanotech Holdings, Inc. and Nanofilm, Ltd. dated June 2, 2014 (furnished herewith).

ADDITIONAL INFORMATION AND WHERE TO FIND IT

In connection with the merger of APNT and Nanofilm discussed in this Form 8-K, we will be filing a proxy statement and relevant documents concerning the transaction with the Securities and Exchange Commission ("SEC"). OUR SECURITY HOLDERS ARE URGED TO READ THE PROXY STATEMENT AND ANY OTHER RELEVANT DOCUMENTS FILED WITH THE SEC WHEN THEY BECOME AVAILABLE BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION. Investors and security holders can obtain free copies of the proxy statement and other documents when they become available by contacting our Investor Relations Department, 3006 Longhorn Boulevard, Suite 107, Austin, Texas 78758 (Telephone: (512) 339-5020). In addition, documents we filed with the SEC are available free of charge at the SEC's web site at <http://www.sec.gov> and at our website www.appliednanotech.net under "Investor Information - SEC Filings."

Our company and our directors and executive officers and other persons may be deemed to be participants in the solicitation of proxies in respect of the proposed merger discussed in this Form 8-K. Information regarding our directors and executive officers is available in our Annual Report on Form 10-K for the year ended December 31, 2013, which was filed with the SEC on February 25, 2014, and the proxy statement and other relevant materials to be filed with the SEC in connection with these matters. Other information regarding the participants in the proxy solicitation and a description of their direct and indirect interests, by security holdings or otherwise, will be contained in the proxy statement and other relevant materials to be filed with the SEC when they become available.

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.

Applied Nanotech Holdings, Inc

Date: June 3, 2014

By: /s/ Jacqué Soptick
Jacqué Soptick, Chief Accounting Officer



Applied Nanotech Holdings, Inc. (OTCQB: APNT) announces filing of preliminary proxy for proposed combination with Nanofilm, Ltd.

Austin, Texas and Valley View, Ohio – June 2, 2014 - Applied Nanotech Holdings, Inc. (OTCQB:APNT) (Applied Nanotech), a global leader in nanotechnology research and development, and NanoHolding Inc., the parent company of Nanofilm, Ltd. (Nanofilm), a private company with a leading market position for specialty optical coatings, cleaners and nano-composite products, today jointly announced that Applied Nanotech filed on Friday, May 30, preliminary proxy material with the Securities and Exchange Commission to effect the combination of their operations under a new publicly traded company called PEN Inc. The primary purpose of the proxy material, when final and sent to all Applied Nanotech shareholders, is to solicit the affirmative vote to approve the combination. The exact timing of the mailing of the final proxy material is dependent upon SEC review. Once the proxy material is mailed, it is expected that the shareholder meeting to approve the combination will occur within 45 days.

The preliminary proxy statement describing the proposals is available on the Company's website at www.appliednanotech.net and is also available on the SEC's website at www.sec.gov.

About APNT (OTCQB: APNT)

Applied Nanotech Holdings, Inc. (APNT) is an Austin, Texas-based global leader in nanotechnology research and development and has ongoing research programs and license agreements with product innovators around the world. For information about Applied Nanotech Holdings, Inc., please visit www.appliednanotech.net.

About Nanofilm, Ltd.

Nanofilm, Ltd. is a Valley View, Ohio private company that develops nano-layer coatings, nano-based cleaners, and nano-composite products. Nanofilm's primary commercial products center around its unique eyecare glass cleaning and de-fogging products; other products include precision mold release treatments, stay-clean surface treatments for ceramic insulators, and scuff-resistant treatments for commercial dinnerware. For information about Nanofilm, please visit www.nanofilmtechnology.com.

DISCLOSURE NOTICE: The information contained in this release is as of June 2, 2014. APNT and Nanofilm assume no obligation to update forward-looking statements contained in this release as the result of new information or future events or developments.

This release contains forward-looking information that involves substantial risks and uncertainties about the proposed merger of APNT and Nanofilm and their expectations regarding completion of the merger and their ability to expand, develop and enhance new products. Such risks and uncertainties include, among other things, the uncertainty regarding the completion of bridge financing, conversion of certain APNT debt into equity, approval by the respective shareholders of APNT and NanoHolding Inc., and market acceptance of products using their technologies.

A further description of risks and uncertainties regarding APNT's business can be found in its Annual Report on Form 10-K for the fiscal year ended December 31, 2013 and in its reports on Form 10-Q and Form 8-K.

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