

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 26, 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))
-

Item 7.01 Regulation FD Disclosure.

On June 25, 2014 we issued a joint press release with Nanofilm Ltd. about the anticipated timing for mailing of definitive proxy materials and the setting of the record date of June 28, 2014 for a shareholders meeting to be held in Dallas Texas on August 28, 2014 for our shareholders to vote on 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 26, 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 26, 2014

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



**Applied Nanotech Holdings, Inc. sets date for shareholder vote
for proposed combination with Nanofilm, Ltd.**

Austin, Texas and Valley View, Ohio – June 26, 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 has been cleared to file its definitive 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 is to solicit the affirmative vote to approve the combination. The APNT Board of Directors has unanimously approved the combination, and unanimously recommends that shareholders vote "FOR" the transaction.

The Company expects to commence mailing of the definitive proxy materials to all shareholders on July 10, 2014, in preparation for an August 28, 2014, shareholder meeting in Dallas, Texas. Shareholders whose shares are held through a broker will receive proxy materials by the method they elected with their broker, either by mail or email. All other shareholders will receive proxy materials by mail.

APNT stockholders who have questions about the proxy materials or need assistance in submitting their proxy or voting their shares should contact Morrow & Co., LLC, which is assisting APNT, toll-free at 888-813-7566.

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.nanofilmmtechnology.com.

DISCLOSURE NOTICE: The information contained in this release is as of June 25, 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.

ADDITIONAL INFORMATION AND WHERE TO FIND IT

In connection with the merger of APNT and Nanofilm discussed in this press release, APNT has filed a proxy statement and relevant documents concerning the transaction with the Securities and Exchange Commission ("SEC"). The definitive proxy statement and a form of proxy are being mailed to the APNT stockholders. SECURITY HOLDERS OF APNT ARE URGED TO READ THE PROXY STATEMENT AND ANY OTHER RELEVANT DOCUMENTS FILED BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION. Investors and security holders can obtain free copies of the proxy statement and other relevant documents filed with the SEC from the SEC's website at www.sec.gov. APNT shareholders can also obtain free copies of the proxy statement and other relevant documents by contacting our Investor Relations Department, 3006 Longhorn Boulevard, Suite 107, Austin, Texas 78758 (Telephone: (512) 339-5020) or from APNT's website, appliednanotech.net.

APNT and its directors and executive officers and other persons may be deemed to be participants in the solicitation of proxies in respect of the proposed merger of APNT and Nanofilm. 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.

Contact Information:

Lynn Lilly
Director of Communication
Nanofilm, Ltd.
llilly@nanofilmtechnology.com
(216) 447 – 1199 ext. 119