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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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**FORM 8-K**

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**CURRENT REPORT**

**PURSUANT TO SECTION 13 OR 15(d) OF  
THE SECURITIES EXCHANGE ACT OF 1934**

**Date of Report: August 4, 2014  
Commission file number 001-11602**

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**APPLIED NANOTECH HOLDINGS, INC.**

(Exact name of registrant as specified in its charter)

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**Texas**  
(State or other jurisdiction  
of incorporation or organization)

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

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

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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.**

As of August 4, 2014, holders of more than 60 million shares of Applied Nanotech Holdings, Inc. common stock have submitted proxies, and 98% of them voted FOR the combination with NanoHoldings Inc. However, an additional 19 million votes in favor of the combination must be received in order for the combination to be approved.

On August 4, 2014 we issued a press release containing an open letter to our shareholders asking them to vote in favor of the proposals presented in the proxy statement. 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 9.01 Financial Statements and Exhibits.**

**99.1** Press Release of Applied Nanotech Holdings, Inc. dated August 4, 2014 (furnished herewith).

**ADDITIONAL INFORMATION AND WHERE TO FIND IT**

In connection with the merger of APNT and NanoHoldings discussed in this Form 8-K, we filed 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 BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION. Investors and security holders can obtain free copies of the proxy statement and other documents 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](http://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 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 other relevant materials to be filed with the SEC when they become available.

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**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: August 4, 2014

By: /s/ Jacque Soptick

Jacque Soptick, Chief Accounting Officer

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**Applied Nanotech Board Issues Open Letter to Shareholders**

**Urges shareholders to vote proxies immediately  
for August 22, 2014 shareholder meeting**

**Board unanimously recommends voting FOR all proposals.**

Austin, Texas – August 4, 2014 – The Board of Directors of Applied Nanotech Holdings, Inc. (OTCQB: APNT) (Applied Nanotech) today issued the following open letter to shareholders.

Dear fellow APNT Shareholder,

By now you should have received proxy materials for the Special Meeting of Shareholders of Applied Nanotech Holdings, Inc. to be held on August 22, 2014. The primary purpose is to solicit the shareholders' vote to approve the combination of Applied Nanotech Holdings, Inc. and NanoHolding Inc. (Nanofilm) to create PEN Inc.

- **We ask you to vote today.**

To achieve a quorum and complete the vote on the proposals, we need your vote.

- **You must vote your shares personally. Your shares CANNOT be voted for you by your broker, bank, other institution or nominee.**

- **The Board unanimously recommends you vote FOR the combination.**

The Board recommends you vote FOR all four proposals, noting Proposals 1 and 4 relate directly to the combination.

The combination of APNT and Nanofilm opens the door for a new era for the Company, driven by a focus on commercialization and informed by Nanofilm's 25-year track record in launching profitable nanotechnology-enabled products into the global market.

Dr. Scott Rickert, founder and CEO of Nanofilm and proposed CEO of PEN Inc, has a demonstrated ability to marry breakthrough nanotechnology with marketplace needs to create advanced products that command higher prices and higher margins than traditional products.

In consultation with the board of APNT, Dr. Rickert and his team have already provided operations, R&D and management guidance that's been a factor in the improved financial condition of the company. APNT'S Board Chairman, Dr. Robert Ronstadt, states, "The proposed merger provides an enhanced path to commercialization of APNT's nanotechnology-based products. Your Board strongly believes this will result in a growth of shareholder value, and therefore we strongly recommend all fellow shareholders vote FOR all four proposals."

If you are FOR the combination, please encourage friends and family members who are also shareholders to vote FOR the combination.

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To view the proxy material that was mailed to you, go to [www.sec.gov](http://www.sec.gov). If you'd like another set of materials, please contact Lynn Lilly, Director of Communication, at 216-702-5167, [llilly@nanofilmtechnology.com](mailto:llilly@nanofilmtechnology.com).

**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](http://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](http://www.nanofilmtechnology.com).

**DISCLOSURE NOTICE:** The information contained in this release is as of August 4, 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 combination of APNT and Nanofilm and their expectations regarding completion of the combination 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 combination 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.

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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](http://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, [www.appliednanotech.net](http://www.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 combination 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:

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