

OMB APPROVAL	
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**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)

September 3, 2013

APPLIED NANOTECH HOLDINGS, INC.

(Exact name of registrant as specified in its charter)

TEXAS

(State or other jurisdiction of incorporation)

1-11602

(Commission File Number)

76-0273345

(IRS Employer Identification No.)

3006 Longhorn Boulevard, Suite 107, Austin, Texas

(Address of principal executive offices)

78758

(Zip Code)

(512) 339 - 5020

Registrant's telephone number, including area code

(Former name or former address, if changed since last report.)

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 (see General Instruction A.2. below):

- 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 5.02 – Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers**

Effective September 3, 2013, Alan Jernigan, CEO of EZDiagnostix, Inc, a subsidiary of the Company ceased employment as a result of a restructuring of the Company that caused a reduction in the workforce.

**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.

By: /s/ Douglas Baker  
Douglas P. Baker  
Chief Financial Officer

Date: September 5, 2013