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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

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**FORM 8-K**

**CURRENT REPORT**  
**Pursuant to Section 13 or 15(d) of the**  
**Securities Exchange Act of 1934**

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Date of Report (Date of earliest event reported): December 5, 2017

**Alliqua BioMedical, Inc.**

(Exact Name of Registrant as Specified in its Charter)

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Delaware  
(State or other jurisdiction  
of incorporation)

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001-36278  
(Commission File Number)

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58-2349413  
(IRS Employer  
Identification No.)

1010 Stony Hill Road  
Suite 200  
Yardley, Pennsylvania  
(Address of principal executive offices)

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19067  
(Zip Code)

Registrant's telephone number, including area code: (215) 702-8550

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Former name or former address, if changed since last report

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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))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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**Item 5.02 Departure of Directors or Principal Officers; Election of Directors; Appointment of Principal Officer.**

On December 5, 2017, Jerome Zeldis M.D., Ph.D., resigned from the board of directors of Alliqua BioMedical, Inc. (the “Company”), effective immediately. Dr. Zeldis’ decision to resign from the Board did not result from any disagreement with the Company or its management.

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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.

**ALLIQUA BIOMEDICAL, INC.**

Dated: December 8, 2017

By: /s/ Brian Posner

Name: Brian Posner

Title: Chief Financial Officer

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