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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 (Date of earliest event reported): **October 27, 2009**

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**AGY HOLDING CORP.**

(Exact name of registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction  
of incorporation)

**335-150749**  
(Commission  
File Number)

**20-0420637**  
(IRS Employer  
Identification No.)

**2556 Wagener Road**  
**Aiken, South Carolina**  
(Address of principal executive offices)

**29801**  
(Zip Code)

**(888) 434-0945**  
(Registrant's telephone number, including area 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 5.02. Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.**

(b) Wayne T. Byrne has tendered his resignation as Chief Financial Officer of AGY Holding Corp., effective as of November 13, 2009.

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**SIGNATURE**

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.

AGY HOLDING CORP.

Date: November 2, 2009

By: /s/ Douglas J. Mattscheck

Name: Douglas J. Mattscheck

Title: Chief Executive Officer