UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, DC 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)

November 20, 2006

NIGHTHAWK RADIOLOGY HOLDINGS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 000-51786 (Commission File Number) 87-0722777 (IRS Employer Identification No.)

250 Northwest Boulevard, Suite 202

Coeur d Alene, Idaho 83814

(Address of principal executive offices, including zip code)

(208) 676-8321

(Registrant s telephone number, including area code)

Not Applicable

(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):

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- " 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 1.01 Entry into a Material Definitive Agreement.

On November 20, 2006, NightHawk Radiology Holdings, Inc., through our wholly-owned subsidiary and operating entity, NightHawk Radiology Services, LLC, entered into an Office Lease (the Lease) with Quatro Investments covering approximately 5,000 square feet of office space in Austin, Texas. The Lease has a term of five years and contains an option to lease additional space on the terms set forth in the Lease. We will be offering our cardiac imaging services from our Austin, Texas facility.

A copy of the Lease is attached to this Current Report as Exhibit 10.27.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number Description

10.27 Office Lease between NightHawk Radiology Services, LLC and Quatro Investments dated November 20, 2006.

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.

Date: November 22, 2006

NIGHTHAWK RADIOLOGY HOLDINGS, INC.

By: /s/ Paul E. Cartee Paul E. Cartee Vice President and General Counsel

EXHIBIT INDEX

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