AMERICAN SHARED HOSPITAL SERVICES Form 10-Q/A November 10, 2010

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

FORM 10-Q/A (Mark One) X OUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the quarterly period ended June 30, 2010 or "TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the transition period from ______ to _____. Commission file number 1-08789 American Shared Hospital Services (Exact name of registrant as specified in its charter) California 94-2918118 (State or other jurisdiction of (IRS Employer Incorporation or organization) Identification No.)

Four Embarcadero Center, Suite 3700, San Francisco, California (Address of Principal Executive Offices)

94111 (Zip Code)

Registrant's telephone number, including area code: (415) 788-5300

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes "No x

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes "No"

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company. See definition of "large accelerated filer", "accelerated filer", and "smaller reporting"

company" in Rule 12b-2 of the Exchange Act. (Check one):

Large Accelerated Filer " Accelerated Filer " Non-Accelerated Filer " Smaller reporting company x

As of August 1, 2010, there are outstanding 4,597,070 shares of the Registrant's common stock.

EXPLANATION

American Shared Hospital Services (the "Company") is filing this amendment to Form 10-Q for the quarter ended June 30, 2010, originally filed with the Securities and Exchange Commission on August 16, 2010, with the following changes: the exhibits originally filed are being re-filed to include notations that indicate that material included in the exhibits has been omitted pursuant to a request for confidential treatment, and the material has been filed separately with the Securities and Exchange Commission.

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Item 6. Exhibits.

(a) Exhibits

The following exhibits are filed herewith:

- 10.19c Second Amendment to Lease Agreement for a Gamma Knife unit effective as of May 15, 2009 between GK Financing, LLC and Yale-New Haven Hospital, Inc. a/k/a Yale-New Haven Hospital (Confidential material appearing in this document has been omitted and filed separately with the Securities and Exchange Commission in accordance with Rule 24b-2, promulgated under the Securities and Exchange Act of 1934, as amended. Omitted information has been replaced with asterisks.)
- 10.58 Addendum Three to Lease Agreement for a Gamma Knife unit effective as of June 20, 2007 between GK Financing, LLC and Sunrise Hospital and Medical Center, LLC (Confidential material appearing in this document has been omitted and filed separately with the Securities and Exchange Commission in accordance with Rule 24b-2, promulgated under the Securities and Exchange Act of 1934, as amended. Omitted information has been replaced with asterisks.)
- 10.59 Addendum Four to Lease Agreement for a Gamma Knife unit effective as of February 8, 2010 between GK Financing, LLC and Sunrise Hospital and Medical Center, LLC (Confidential material appearing in this document has been omitted and filed separately with the Securities and Exchange Commission in accordance with Rule 24b-2, promulgated under the Securities and Exchange Act of 1934, as amended. Omitted information has been replaced with asterisks.)

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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 thereunto duly authorized.

AMERICAN SHARED HOSPITAL SERVICES

Registrant

Date: November 10, 2010 /s/ Ernest A. Bates, M.D.

Ernest A. Bates, M.D.

Chairman of the Board and Chief Executive Officer

Date: November 10, 2010 /s/ Craig K. Tagawa

Craig K. Tagawa Senior Vice President

Chief Operating and Financial Officer

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