

AMERICAN SHARED HOSPITAL SERVICES  
Form 10-Q/A  
October 24, 2011

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549

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FORM 10-Q/A

(Mark One)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended June 30, 2011 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

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American Shared Hospital Services  
(Exact name of registrant as specified in its charter)

California  
(State or other jurisdiction of  
Incorporation or organization)

94-2918118  
(IRS Employer  
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

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

As of August 1, 2011, there are outstanding 4,611,560 shares of the Registrant’s common stock.

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EXPLANATION

American Shared Hospital Services (the “Company”) is filing this amendment to Form 10-Q for the quarter ended June 30, 2011, originally filed with the Securities and Exchange Commission on August 15, 2011, with the following change: Exhibit 10.62 is being re-filed in its entirety to include Exhibit 1, which was inadvertently omitted from the original filing.

Item 6.

Exhibits.

(a)

Exhibits

The following exhibits are filed herewith:

10.62 Lease Agreement for a Gamma Knife Unit effective as of April 8, 2011 between GK Financing, LLC and Lovelace Health System, Inc., d/b/a Lovelace Medical Center. (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.)

#### 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: October 20, 2011

/s/ Ernest A. Bates, M.D.

Ernest A. Bates, M.D.

Chairman of the Board and Chief Executive Officer

Date: October 20, 2011

/s/ Craig K. Tagawa

Craig K. Tagawa

Senior Vice President

Chief Operating and Financial Officer