

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

FORM 8-K

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

July 14, 2010  
Date of Report (Date of earliest event reported)

Amtech Systems, Inc.  
(Exact name of registrant as specified in its charter)

Arizona	000-11412	86-0411215
(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)

131 South Clark Drive, Tempe, Arizona	85281
(Address of principal executive offices)	(Zip Code)

Registrant's telephone number, including area code \_\_\_\_\_ (480) 967-5146

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):

- Written communications pursuant to Rule 425 under 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 2.02 Results of Operations and Financial Condition.**

On July 14, 2010 Amtech Systems, Inc. (the “Registrant”) issued a press release containing preliminary results of operations for the third quarter of fiscal 2010, ended June 30, 2010. A copy of the press release is included as Exhibit 99.1 to this Current Report and is incorporated herein by reference.

The information contained in this Current Report, including the accompanying exhibit is furnished pursuant to Item 2.02 of Regulation S-K and shall not be incorporated by reference into any filing of the Registrant, whether made before or after the date hereof, regardless of any general incorporation language in such filing, unless expressly incorporated by specific reference in such filing. The information in this Current Report, including the accompanying exhibit, shall not be deemed to be “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that section or Sections 11 and 12(a)(2) of the Securities Act of 1933, as amended.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

Exhibit

<u>Number</u>	<u>Description</u>
99.1	Press Release dated July 14, 2010

**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.

AMTECH SYSTEMS, INC.

Date: July 19, 2010

By: /s/ Bradley C. Anderson  
Name: Bradley C. Anderson  
Title: Vice President and Chief  
Financial Officer

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**INDEX TO EXHIBITS**

Exhibit	Description
99.1	Press Release dated July 14, 2010

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**Amtech Reports Preliminary Revenue, Orders and Backlog for Fiscal Third Quarter; Record Q3  
Revenue of \$42 Million and Record Q3 bookings of \$44 Million  
Total orders surpass \$135 million in first nine months ended June 30, 2010**

TEMPE, Arizona - - July 14, 2010 - Amtech Systems, Inc. (NASDAQ: ASYS), a global supplier of production and automation systems and related supplies for the manufacture of solar cells, semiconductors, and silicon wafers, today reported preliminary results for its fiscal 2010 third quarter ended June 30, 2010, including record revenue of approximately \$42 million (\$37 million solar), a 161% increase over the preceding quarter and 227% increase over the third quarter of fiscal 2009, and record fiscal third quarter bookings of approximately \$44 million (\$37 million solar).

For the first nine months of fiscal 2010 ended June 30, 2010, Amtech has recorded over \$135 million in total orders, exceeding all previous full fiscal year bookings. Amtech's total order backlog at June 30, 2010, was approximately \$80 million. The Company expects to report final fiscal 2010 third quarter results in early August.

J.S. Whang, Chief Executive Officer of Amtech, commented, "Our strong preliminary revenue for the third quarter further demonstrates our market leadership in solar diffusion and our operational capability to manage and service this high growth market. With our continued success in expanding our solar market share with an increasing number of top tier solar customers, we recorded a record number of orders for a third quarter. As planned, we have ramped up operations to support our record-breaking order momentum and profitably manage our rapid growth."

The fiscal 2010 third quarter financial information included in this release is preliminary and subject to change based on the Company's quarterly close procedures.

**About Amtech Systems, Inc.**

Amtech Systems, Inc. manufactures capital equipment, including silicon wafer handling automation, thermal, plasma and etch processing equipment and related consumables used in fabricating solar cells and semiconductor devices. Semiconductors, or semiconductor chips, are fabricated on silicon wafer substrates, sliced from ingots, and are part of the circuitry, or electronic components, of many products including solar cells, computers, telecommunications devices, automotive products, consumer goods, and industrial automation and control systems. The Company's wafer handling and processing equipment and consumable products currently address the diffusion, oxidation, deposition, PECVD, and PSG removal steps used in the fabrication of solar cells, semiconductors, MEMS and the polishing of newly sliced silicon wafers.

**Forward-Looking Statements**

Statements contained in this press release that are not historical facts may be forward looking statements within the meaning of the Private Litigation Reform Act. Such statements may use words such as "proposed," "anticipate," "believe," "estimate," "expect," "intend," "predict," "project" and similar expressions as they relate to Amtech Systems, Inc. or our management. When we make forward-looking statements, we are basing them on our management's beliefs and assumptions, using information currently available to us. Although we believe that the expectations reflected in the forward looking statements are reasonable, these forward-looking statements are subject to risks, uncertainties and assumptions including the risks discussed in our filings with the Securities and Exchange Commission. If one or more of these risks materialize, or if our underlying assumptions prove to be incorrect, actual results may vary materially from what we projected. Any forward looking statements contained in this press release reflect our current views with respect to future events and are subject to these and other risks, uncertainties and assumptions relating to our operations, results of operations, growth strategy and liquidity. We have no intention, and disclaim any obligation, to update or revise any forward-looking statements, whether as a result of new information, future results or otherwise.

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Contacts:

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Chief Financial Officer  
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MKR Group, Inc.  
Investor Relations  
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