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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

**Washington, D.C. 20549**

**SCHEDULE 13D**

**Under the Securities Exchange Act of 1934  
(Amendment No. 1)\***

**AMTECH SYSTEMS, INC.**

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(Name of Issuer)

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Common Stock, \$.01 par value  
(Title of Class of Securities)

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032332-50-4  
(CUSIP Number)

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David W. Stempel, Esq.  
Boult Cummings Conners & Berry, PLC  
1600 Division Street, Suite 700  
Nashville, Tennessee 37203  
(615) 252-4632

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(Name, Address and Telephone Number of Person Authorized to  
Receive Notices and Communications)

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September 26, 2008  
(Date of Event Which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

**Note:** Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP No. 032332-50-4

<b>1</b>	NAMES OF REPORTING PERSONS Richard L. Scott	
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
<b>3</b>	SEC USE ONLY	
<b>4</b>	SOURCE OF FUNDS (SEE INSTRUCTIONS) PF	
<b>5</b>	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) <input type="checkbox"/>	
<b>6</b>	CITIZENSHIP OR PLACE OF ORGANIZATION United States	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	<b>7</b>	SOLE VOTING POWER 733,464
	<b>8</b>	SHARED VOTING POWER -0-
	<b>9</b>	SOLE DISPOSITIVE POWER 733,464
	<b>10</b>	SHARED DISPOSITIVE POWER -0-
<b>11</b>	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 733,464	
<b>12</b>	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
<b>13</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 8.1%	
<b>14</b>	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IN	

This Amendment No. 1 amends the Schedule 13D filed by Richard L. Scott ("Reporting Person") on July 28, 2008 (the "Schedule 13D"), with respect to shares of the Common Stock, \$.01 par value ("Common Stock"), of Amtech Systems, Inc., an Arizona corporation (the "Issuer"). Capitalized terms used but not defined herein shall have the respective meanings ascribed to such terms in the Schedule 13D.

The following Items are hereby amended and restated in their entirety to read as follows:

**Item 3. Source and Amount of Funds or Other Consideration**

The Reporting Person has used personal funds of approximately \$6,341,114 to acquire 733,464 shares of Common Stock in open market transactions. The Common Stock was purchased by Amtech Investments, LLC, a member managed limited liability company of which Reporting Person is the controlling member.

**Item 5. Interest in Securities of the Issuer**

The 733,464 shares of Common Stock represent 8.1% of the outstanding Common Stock of the Issuer, based on the outstanding shares of Issuer Common Stock set forth on the Issuer's most recent Form 10Q.

The Reporting Person has sole voting and dispositive power with respect to the Common Stock.

The Reporting Person purchased the following shares of Common Stock of the Issuer in open market transactions during the past 60 days:

<u>Purchase Date</u>	<u>No. of Shares</u>	<u>Price Per Share</u>
8/1/2008	1,250	\$ 9.35000
8/1/2008	595	\$ 9.48000
8/4/2008	3,500	\$ 9.47570
8/5/2008	200	\$ 9.50000
9/9/2008	21,300	\$ 10.03870
9/11/2008	2,329	\$ 10.01550
9/12/2008	2,300	\$ 10.04870
9/15/2008	2,250	\$ 9.71490
9/16/2008	9,464	\$ 9.98470
9/17/2008	1,000	\$ 10.02000
9/18/2008	3,500	\$ 9.93830
9/26/2008	7,700	\$ 9.99870
9/29/2008	7,250	\$ 9.75430

The Common Stock was purchased by Amtech Investments, LLC, a member managed limited liability company of which Reporting Person is the controlling member.

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

DATED: September 30, 2008

/s/ Richard L. Scott  
Richard L. Scott