

FORM 12b-25

NOTIFICATION OF LATE FILING

(Check One)    Form 10-K    Form 20-F    Form 11-K    X Form 10-Q    Form N-SAR  
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For Period Ended:    December 31, 2004  
[ ]    Transition Report on Form 10-K  
[ ]    Transition Report on Form 20-F  
[ ]    Transition Report on Form 11-K  
[ ]    Transition Report on Form 10-Q  
[ ]    Transition Report on Form N-SAR  
For the Transition Period Ended: \_\_\_\_\_

READ ATTACHED INSTRUCTION SHEET BEFORE PREPARING FORM. PLEASE PRINT OR TYPE

Nothing in the form shall be construed to imply that the Commission has  
verified any information contained herein.

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If the notification relates to a portion of the filing checked above,  
identify the Item(s) to which the notification relates: N/A  
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PART I - REGISTRANT INFORMATION

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Amtech Systems, Inc.  
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Full Name of Registrant

N/A  
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Former Name if Applicable

131 S. Clark Drive  
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Address of Principal Executive Office (STREET AND NUMBER)

Tempe, AZ 85281  
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City, State and Zip Code

PART II - RULES 12b-25(b) and (c)

If the subject report could not be filed without unreasonable effort or expense  
and the registrant seeks relief pursuant to Rule 12b-25(b), the following  
should be completed. (Check appropriate box)

- \_\_\_ (a)    The reasons described in reasonable detail in Part III of this  
form could not be eliminated without unreasonable effort or  
expense;
- X (b)    The subject annual report, semi-annual report, transition  
- --- report on Form 10-K, Form 20-F, 11-K, Form N-SAR, or portion  
thereof, will be filed on or before the fifteenth calendar day  
following the prescribed due date; or the subject quarterly  
report of transition report on Form 10-Q, or portion thereof  
will be filed on or before the fifth calendar day following  
the prescribed due date; and
- \_\_\_ (c)    The accountant's statement or other exhibit required by Rule  
12b-25(c) has been attached if applicable.

PART III - NARRATIVE

State below in reasonable detail the reasons why the Form 10-K, 11-K, 10-Q,  
N-SAR, or the transition report or portion thereof, could not be filed with the  
prescribed time period. (Attach Extra Sheets if Needed)

The Company was unable to obtain the information necessary to complete the  
preparation of the Company's financial statements for the three months ended  
December 31, 2004 in time for filing. Such information is required in order to  
prepare a complete filing. As a result of this delay, the Company is unable to  
file its quarterly report on Form 10-Q within the prescribed time period  
without unreasonable effort or expense. The Company will file the Form 10-Q  
within the extension period.

PART IV - OTHER INFORMATION

(1) Name and telephone number of person to contact in regard to this notification

Robert T. Hass	480	967-5146
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(Name)	(Area Code)	(Telephone Number)

(2) Have all other periodic reports required under Section 13 or 15(d) of the Securities Exchange Act of 1934 or Section 30 of the Investment Company Act of 1940 during the preceding 12 months or for such shorter period that the registrant was required to file such reports been filed? If answer is no identify report(s).

X Yes No  
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(3) Is it anticipated that any significant change in results of operations from the corresponding period for the last fiscal year will be reflected by the earnings statements to be included in the subject report or portion thereof? X Yes No  
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If so, attach an explanation of the anticipated change, both narratively and quantitatively, and, if appropriate, state the reasons why a reasonable estimate of the results cannot be made:

We will report revenues for the three months ended December 31, 2004 that are approximately 85% higher than in the same period ended December 31, 2003. Revenues from our new subsidiary, Bruce Technologies, Inc., contributed to approximately 44% of the increase. As a result of the increased sales, we will also report income before income taxes for the three months ended December 31, 2004 that is approximately 219% higher than in the same period ended December 31, 2003.

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Amtech Systems, Inc.  
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(Name of Registrant as Specified in Charter)

has caused this notification to be signed on its behalf by the undersigned hereunto duly authorized.

Date 2/15/2005 By /s/ Robert T. Hass

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Vice President-Finance and  
Chief Financial Officer

INSTRUCTION: The form may be signed by an executive officer of the registrant or by any other duly authorized representative. The name and title of the persons signing the form shall be typed or printed beneath the signature. If the statement is signed on behalf of the registrant by an authorized representative (other than an executive officer), evidence of the representative's authority to sign on behalf of the registrant shall be filed with the form.

ATTENTION

Intentional misstatements or omissions of fact constitute Federal Criminal Violations (See 18 U.S.C. 1001).

GENERAL INSTRUCTION

1. This form is required by Rule 12b-25 (17 CFR 240.12b-25) of the General Rules and Regulations under the Securities Exchange Act of 1934.
2. One signed original and four conformed copies of this form and amendments thereto must be completed and filed with the Securities and Exchange Commission, Washington, D.C. 20549 in accordance with Rule 0-3 of the General Rules and Regulations under the Act. The information contained in or filed with the form will be made a matter of public record in the Commission files.
3. A manually signed copy of the form and amendments thereto shall be filed with each national securities exchange on which any class of securities of the registrant is registered.
4. Amendments to the notifications must also be filed on form 12b-25 but need not restate information that has been correctly furnished. The

form shall be clearly identified as an amendment notification.

5. ELECTRONIC FILERS. This form shall not be used by electronic filers unable to timely file a report solely due to electronic difficulties. Filers unable to submit a report within the time period prescribed due to difficulties in electronic filing should comply with either Rule 201 or Rule 202 of Regulation S-T (Section 232.201 or Section 232.202 of this chapter) or apply for an adjustment in filing date pursuant to Rule 13(b) of Regulation S-T (Section 232.12(c) of this chapter).