

Giese Alfred
 Form 4
 December 02, 2010

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Giese Alfred

(Last) (First) (Middle)

C/O AMTECH SYSTEMS,
 INC., 131 SOUTH CLARK DR.

(Street)

TEMPE, AZ 85281

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 AMTECH SYSTEMS INC [asys]

3. Date of Earliest Transaction
 (Month/Day/Year)
 12/01/2010

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director 10% Owner
 Officer (give title below) Other (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				Code	V Amount (D) Price			
Amtech Systems, Inc. \$.01 par value common stock	12/01/2010		M	2,500	A	\$ 11.05 3,500	D	
Amtech Systems, Inc. \$.01 par value common stock	12/01/2010		S	2,500	D	\$ 21.07 1,000	D	

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and of Underlying Securities (Instr. 3 and 4)
Amtech Systems, Inc. Non-Employee Director Stock Option	\$ 11.05	12/01/2010		M	2,500	03/14/2010 ⁽³⁾ 03/14/2018 ⁽⁴⁾	Amtech Systems, Inc. \$.01 par value common stock

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Giese Alfred C/O AMTECH SYSTEMS, INC. 131 SOUTH CLARK DR. TEMPE, AZ 85281	X			

Signatures

Robert T. Hass on behalf of Alfred Giese by Power of Attorney
Date: 12/02/2010

__Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
 - ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Price omitted because the transaction is a grant of a stock option.
(2)

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This is the number of derivative securities, with the same terms and conditions, following the reported transaction. Total of all derivative securities, with different terms and conditions, held following the reported transaction is 15,833.

(3) One-third of the stock option granted vest on each of the first three anniversaries of the March 14, 2008.

Any unexercised stock options expire 90 days after membership on the Board of Directors terminates, except that the expiration is one

(4) year from the date of termination if such termination is the result of death, or such other expiration date as the Board of Directors sets in its discretion at the time of termination.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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J. Bruce Flatt, Director and Senior Managing Partner and Chief Executive Officer

181 Bay Street, Suite 300
Toronto, Ontario M5J 2T3, Canada

Senior Managing Partner and Chief Executive Officer of Brookfield

Canada

Robert J. Harding, Director

c/o 181 Bay Street, Suite 300, Brookfield Place,
Toronto, Ontario M5J 2T3, Canada

Corporate Director of Brookfield

Explanation of Responses:

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Canada

V. Maureen Kempston Darkes, Director

10 Avoca Avenue, Unit 1904, Toronto, Ontario M4T 2B7

Corporate Director

Canada

David W. Kerr, Director

Explanation of Responses:

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Halmont Properties Corporation
51 Yonge Street, Suite 400, Toronto, Ontario M5E 1J1, Canada

Chairman, Halmont Properties Corporation

Canada

Brian D. Lawson, Senior Managing Partner and Chief Financial Officer

181 Bay Street, Suite 300
Toronto, Ontario M5J 2T3, Canada

Senior Managing Partner and Chief Financial Officer of Brookfield

Canada

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Murilo Ferreira, Director

Rua General Venâncio Flores, 50 Cob 01, Leblon Rio de Janeiro

Former CEO of Vale SA

Brazil

Cyrus Madon, Senior Managing Partner

181 Bay Street, Suite300
Toronto, Ontario M5J 2T3, Canada

Senior Managing Partner of Brookfield

Canada

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Frank J. McKenna, Director	TD Bank Group, P.O. Box 1, TD Centre, 66 Wellington St. West, 4th Floor, TD Tower, Toronto, Ontario M5K 1A2, Canada	Chair of Brookfield and Deputy Chair of TD Bank Group	Canada
Rafael Miranda, Director	C/Principe de Viana 9 28023 Madrid, Spain	Former CEO of Endesa, S.A., Chairman of Acerinox, S.A.	Spain
Youssef A. Nasr, Director	P.O. Box 16 5927, Beirut, Lebanon	Corporate Director of Brookfield and former Chairman and CEO of HSBC Middle East Ltd. and former President of HSBC Bank Brazil	Lebanon and U.S.A.
Lord Augustine Thomas O'Donnell, Director	Frontier Economics 71 High Holborn, London U.K. WC1V 6DA	Chairman of Frontier Economics	United Kingdom
Samuel J.B. Pollock, Senior Managing Partner	181 Bay Street, Suite 300 Toronto, Ontario M5J 2T3, Canada	Senior Managing Partner of Brookfield	Canada
Ngee Huat Seek, Director	501 Orchard Road, #08-01 Wheelock Place, Singapore 238880	Chairman, Global Logistic Properties	Singapore
Diana L. Taylor, Director	Solera Capital L.L.C 625 Madison Avenue, 3rd Floor New York, N.Y. 10022	Vice Chair, Solera Capital LLC	U.S.A. and Canada
A.J. Silber, Vice-President, Legal Affairs and Corporate Secretary	181 Bay Street, Suite 300 Toronto, Ontario M5J 2T3, Canada	Vice-President, Legal Affairs and Corporate Secretary of Brookfield	Canada

SCHEDULE II

PARTNERS LIMITED

Name and Position of Officer or Director	Principal Business Address	Principal Occupation or Employment	Citizenship
Jack. L. Cockwell, Director and Chairman	c/o 51 Yonge Street, Suite 400 Toronto, Ontario M5E 1J1, Canada	Corporate Director	Canada
David W. Kerr, Director	Halmont Properties Corporation 51 Yonge Street, Suite 400 Toronto, Ontario M5E 1J1, Canada	Chairman, Halmont Properties Corporation	Canada
Brian D. Lawson, Director and President	Brookfield Asset Management Inc., 181 Bay Street, Brookfield Place, Suite 300, Toronto, Ontario M5J 2T3, Canada	Senior Managing Partner and Chief Financial Officer of Brookfield	Canada
George E. Myhal, Director	Partners Value Investments LP, 181 Bay Street, Brookfield Place, Suite 210, Toronto, Ontario M5J 2T3, Canada	President and Chief Executive Officer, Partners Value Investments LP	Canada
Timothy R. Price, Director	c/o 51 Yonge Street, Suite 400, Toronto, Ontario M5E 1J1, Canada	Chairman, Brookfield Funds	Canada
Tony E. Rubin, Treasurer	51 Yonge Street, Suite 400, Toronto, Ontario M5E 1J1, Canada	Accountant	Canada

SCHEDULE III

BROOKFIELD RENEWABLE POWER INC.

Name and Position of Officer or Director	Principal Business Address	Principal Occupation or Employment	Citizenship
Jennifer Mazin, Director and Senior Vice President & Secretary	Brookfield Asset Management, Inc., 181 Bay Street, Brookfield Place, Suite 300, Toronto, Ontario M5J 2T3, Canada	Managing Partner of Brookfield	Canada
Douglas Christie, Director	Brookfield Asset Management, Inc., 181 Bay Street, Brookfield Place, Suite 300, Toronto, Ontario M5J 2T3, Canada	Senior Vice President	Canada
Julian Deschatelets, Director	Brookfield Asset Management, Inc., 181 Bay Street, Brookfield Place, Suite 300, Toronto, Ontario M5J 2T3, Canada	Senior Vice President	Canada
Nicholas Goodman, Director	Brookfield Asset Management, Inc., 181 Bay Street, Brookfield Place, Suite 300, Toronto, Ontario M5J 2T3, Canada	Managing Partner of Brookfield	United Kingdom