ADAGE CAPITAL PARTNERS GP LLC Form SC 13G October 25, 2006

SECURITIES & EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G* (Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b), (c) AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO 13d-2(b)

> Advanced Magnetics, Inc. (Name of Issuer)

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

> 00753P103 (CUSIP Number)

June 19, 2006 (Date of event which requires filing of this statement)

Check the appropriate box to designate the rule pursuant to which this Schedule 13G is filed:

- [] Rule 13d-1(b) [X] Rule 13d-1(c)
- [] Rule 13d-1(d)

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*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 the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for purposes 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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(1) NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Adage Capital Partners, L.P.

(2)		(a) (b)			
(3)	SEC USE ONLY				
(4)	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
NUMBER OF	(5) SOLE VOTING POWER -0-				
SHARES					
BENEFICIAL	LY (6) SHARED VOTING POWER 600,600				
OWNED BY					
EACH	(7) SOLE DISPOSITIVE POWER -0-				
REPORTING					
PERSON WITH	H (8) SHARED DISPOSITIVE POWER 600,600				
(9)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 600,600				
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES **		[]		
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.0%				
(12)	TYPE OF REPORTING PERSON ** PN				
	** SEE INSTRUCTIONS BEFORE FILLING OUT!				
CUSIP No.	•		Pages		
(1)	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Adage Capital Partners		L.L.C.		
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP **	(a) (b)			
(3)	SEC USE ONLY				
(4)	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
NUMBER OF	(5) SOLE VOTING POWER				

GUA DEG	-0-				
SHARES					
BENEFICIALLY	(6) SHARED VOTING POWER 600,600				
OWNED BY					
EACH	(7) SOLE DISPOSITIVE POWER -0-				
REPORTING					
PERSON WITH	(8) SHARED DISPOSITIVE POWER 600,600				
	GREGATE AMOUNT BENEFICIALLY OWNED EACH REPORTING PERSON 600,600				
	ECK BOX IF THE AGGREGATE AMOUNT ROW (9) EXCLUDES CERTAIN SHARES ** []				
	RCENT OF CLASS REPRESENTED AMOUNT IN ROW (9) 5.0%				
(12) TY	PE OF REPORTING PERSON ** OO				
I.	53P103 13G Page 4 of 11 Pages MES OF REPORTING PERSONS R.S. IDENTIFICATION NO. ABOVE PERSONS (ENTITIES ONLY) Adage Capital Advisors, L.L.C.				
(2) CH	ECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP **				
	(a) [] (b) [X]				
(3) SE	C USE ONLY				
(4) CI	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
NUMBER OF	(5) SOLE VOTING POWER -0-				
SHARES					
BENEFICIALLY OWNED BY	(6) SHARED VOTING POWER 600,600				
EACH	(7) SOLE DISPOSITIVE POWER -0-				
REPORTING	·				

PERSON WITH	(8)	SHARED DISPOSITIVE POWER	600,600
(9)		TE AMOUNT BENEFICIALLY OWN:	ED
			600,600
(10)		OX IF THE AGGREGATE AMOUNT (9) EXCLUDES CERTAIN SHARE.	
(11)		OF CLASS REPRESENTED NT IN ROW (9)	5.0%
(12)	TYPE OF	REPORTING PERSON **	00
		** SEE INSTRUCTIONS BEFO	RE FILLING OUT!
CUSIP No.	00753P10	3 13G	Page 5 of 11 Pages
(1)	I.R.S.	F REPORTING PERSONS IDENTIFICATION NO. E PERSONS (ENTITIES ONLY)	Robert Atchinson
(2)	CHECK T	HE APPROPRIATE BOX IF A ME	MBER OF A GROUP ** (a) [] (b) [X]
(3)	SEC USE	ONLY	
(4)	CITIZEN	SHIP OR PLACE OF ORGANIZAT United States	ION
NUMBER OF	(5)	SOLE VOTING POWER	-0-
		SHARED VOTING POWER	600 , 600
EACH	(7)	SOLE DISPOSITIVE POWER	-0-
REPORTING PERSON WITH			
		SHARED DISPOSITIVE POWER	600,600
	(8) AGGREGA	SHARED DISPOSITIVE POWER TE AMOUNT BENEFICIALLY OWN: REPORTING PERSON	

(11)PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.0% -----(12) TYPE OF REPORTING PERSON ** ** SEE INSTRUCTIONS BEFORE FILLING OUT! CUSIP No. 00753P103 13G Page 6 of 11 Pages (1) NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Phillip Gross (2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP ** (a) [] (b) [X] ______ (3) SEC USE ONLY ______ (4) CITIZENSHIP OR PLACE OF ORGANIZATION United States NUMBER OF (5) SOLE VOTING POWER -0-SHARES BENEFICIALLY (6) SHARED VOTING POWER 600,600 OWNED BY ______ (7) SOLE DISPOSITIVE POWER EACH -0-REPORTING (8) SHARED DISPOSITIVE POWER PERSON WITH 600,600 (9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 600,600 ._____ (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ** _____ (11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) (12) TYPE OF REPORTING PERSON ** IN

** SEE INSTRUCTIONS BEFORE FILLING OUT!

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Item 1(a). Name of Issuer:

The name of the issuer is Advanced Magnetics, Inc. (the "Company").

Item 1(b). Address of Issuer's Principal Executive Offices:

The Company's principal executive offices are located at 125 CambridgePark Drive, 6th Floor, Cambridge, MA 02140

Item 2(a). Name of Person Filing:

This statement is filed by:

- (i) Adage Capital Partners, L.P., a Delaware limited partnership ("ACP"), with respect to the shares of Common Stock directly owned by it;
- (ii) Adage Capital Partners GP, L.L.C., a limited liability company organized under the laws of the State of Delaware ("ACPGP"), as general partner of ACP with respect to the shares of Common Stock directly owned by ACP;
- (iii) Adage Capital Advisors, L.L.C., a limited liability company organized under the laws of the State of Delaware ("ACA"), as managing member of ACPGP, general partner of ACP, with respect to the shares of Common Stock directly owned by ACP;
- (iv) Phillip Gross ("Mr. Gross"), as managing member of ACA, managing member of ACPGP, general partner of ACP with respect to the shares of Common Stock directly owned by ACP; and
- (v) Robert Atchinson ("Mr. Atchinson"), as managing member of ACA, managing member of ACPGP, general partner of ACP with respect to the shares of Common Stock directly owned by ACP.

The foregoing persons are hereinafter collectively referred to as the "Reporting Persons." Any disclosures herein with respect to persons other than the Reporting Persons are made on information and belief after making inquiry to the appropriate party.

Item 2(b). Address of Principal Business Office or, if None, Residence:

The address of the business office of each of the Reporting Persons is 200 Clarendon Street, 52nd Floor, Boston, Massachusetts 02116.

Item 2(c). Citizenship:

ACP is a limited partnership organized under the laws of the State of Delaware. ACPGP and ACA are limited liability companies organized under the laws of the State of Delaware. Messrs. Gross and Atchinson are citizens of the United States.

Item 2(d). Title of Class of Securities:

Common Stock, par value \$.01 per common share (the "Common Stock")

Item 2(e). CUSIP Number:

00753P103

Item 3. If this statement is filed pursuant to Rules 13d-1(b) or 13d-2(b) or (c), check whether the person filing is a:

- (a) [] Broker or dealer registered under Section 15 of the Act,
- (b) [] Bank as defined in Section 3(a)(6) of the Act,
- (c) [] Insurance Company as defined in Section 3(a)(19) of the Act ,
- (d) [] Investment Company registered under Section 8 of the Investment Company Act of 1940,
- (e) [] Investment Adviser in accordance with Rule 13d-1 (b) (1) (ii) (E),
- (f) [] Employee Benefit Plan or Endowment Fund in accordance with 13d-1 (b) (1) (ii) (F),
- (g) [] Parent Holding Company or control person in accordance with Rule 13d-1 (b) (1) (ii) (G),
- (h) [] Savings Association as defined in Section 3(b) of the Federal Deposit Insurance Act,
- (i) [] Church Plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940,
- (j) [] Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to 13d-1(c), check this box: [x]

Item 4. Ownership.

- A. Adage Capital Partners, L.P., Adage Capital Partners GP, L.L.C. and Adage Capital Advisors, L.L.C.
 - (a) Amount beneficially owned: 600,600
 - (b) Percent of class: 5.0% The percentages used herein and in the rest of Item 4 are based on 11,930,532 shares of Common Stock reported to be outstanding as of August 7, 2006, as reflected in the Form 10-Q filed by the Company on August 10, 2006.
 - (c) (i) Sole power to vote or direct the vote: -0-
 - (ii) Shared power to vote or direct the vote: 600,600
 - (iii) Sole power to dispose or direct the disposition: -0-
 - (iv) Shared power to dispose or direct the disposition: 600,600

ACP has the power to dispose of and the power to vote the shares of Common Stock beneficially owned by it, which power may be exercised by its general partner, ACPGP. ACA, as managing member of ACPGP, directs ACPGP's operations. Neither ACPGP nor ACA own directly any shares of Common Stock. By reason of the provisions of Rule 13d-3 of the Securities Exchange Act of 1934 (the "Act"), ACPGP and ACA may be deemed to own beneficially the shares owned by ACP.

- B. Robert Atchinson and Phillip Gross
 - (a) Amount beneficially owned: 600,600
 - (b) Percent of class: 5.0%
 - (c)(i) Sole power to vote or direct the vote: -0-
 - (ii) Shared power to vote or direct the vote: 600,600
 - (iii) Sole power to dispose or direct the disposition: -0-
 - (iv) Shared power to dispose or direct the disposition: 600,600

Messrs. Atchinson and Gross, as managing members of ACA, have shared power to vote the Common Stock beneficially owned by ACP. Neither Mr. Atchinson nor Mr. Gross directly own any shares of Common Stock. By reason of the provisions of Rule 13d-3 of the Act, each may be deemed to beneficially own the shares beneficially owned by ACP.

Item 5. Ownership of Five Percent or Less of a Class.

Not applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

ACPGP, the general partner of ACP, has the power to direct the affairs of ACP, including decisions respecting the disposition of the proceeds from the sale of the shares. Messrs. Atchinson and Gross are the Managing Members of ACA, the managing member of ACPGP, and in that capacity direct ACPGP's operations.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

Not applicable.

Item 8. Identification and Classification of Members of the Group.

Not applicable.

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Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certification.

Each of the Reporting Persons hereby makes the following certification:

By signing below I certify that, to the best of my knowledge and

belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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SIGNATURES

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

DATED: October 24, 2006

ADAGE CAPITAL PARTNERS, L.P.

By: Adage Capital Partners GP, L.L.C., its general partner

By: Adage Capital Advisors, L.L.C.,

its managing member

/s/ ROBERT ATCHINSON

Name: Robert Atchinson Title: Managing Member

ADAGE CAPITAL PARTNERS GP, L.L.C. By: Adage Capital Advisors, L.L.C.,

its managing member

/s/ ROBERT ATCHINSON

Name: Robert Atchinson Title: Managing Member

ADAGE CAPITAL ADVISORS, L.L.C.

/s/ ROBERT ATCHINSON

Name: Robert Atchinson

Title: Managing Member

ROBERT ATCHINSON

/s/ ROBERT ATCHINSON

_____ ROBERT ATCHINSON, individually

/s/ PHILLIP GROSS

PHILLIP GROSS

PHILLIP GROSS, individually

EXHIBIT 1

JOINT ACQUISITION STATEMENT

PURSUANT TO RULE 13d-1(k)

The undersigned acknowledge and agree that the foregoing statement on Schedule 13G, is filed on behalf of each of the undersigned and that all subsequent amendments to this statement on Schedule 13G, shall be filed on behalf of each of the undersigned without the necessity of filing additional joint acquisition statements. The undersigned acknowledge that each shall be responsible for the timely filing of such amendments, and for the completeness and accuracy of the information concerning him or it contained therein, but shall not be responsible for the completeness and accuracy of the information concerning the others, except to the extent that he or it knows or has reason to believe that such information is inaccurate.

DATED: October 24, 2006

ADAGE CAPITAL PARTNERS, L.P.

By: Adage Capital Partners GP, L.L.C.,

its general partner

By: Adage Capital Advisors, L.L.C.,

its managing member

/s/ Robert Atchinson

Name: Robert Atchinson Title: Managing Member

ADAGE CAPITAL PARTNERS GP, L.L.C.

By: Adage Capital Advisors, L.L.C.,

its managing member

/s/ Robert Atchinson

Name: Robert Atchinson Title: Managing Member

ADAGE CAPITAL ADVISORS, L.L.C.

/s/ Robert Atchinson

Name: Robert Atchinson Title: Managing Member

ROBERT ATCHINSON

/s/ Robert Atchinson

Name: Robert Atchinson

PHILLIP GROSS

/s/ Phillip Gross

Name: Phillip Gross