### ADVANCED MAGNETICS INC Form SC 13G May 02, 2006

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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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 RULE 13d-2(b) (Amendment No. \_A\_) \*

Advanced Magnetics Inc

(Name of Issuer)

Common Shares

(Title of Class of Securities)

(CUSIP Number)

May 1, 2006

(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule 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 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).

SCHEDULE 13G

CUSIP No. Page 2 of 5 Pages

1. NAMES OF REPORTING PERSONS S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS

	PALO AL	ALO ALTO INVESTORS		
	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) [ ] (b) [ ]			
	SEC USE ONLY			
4.	Citizenship or Place of Organization United States			
NUME		5. SOLE VOTING POWER 855,		
	FICIALLY ED BY	6. SHARED VOTING POWER		
	ORTING	7. SOLE DISPOSITIVE POWER		
		8. SHARED DISPOSITIVE POWE	ZR	
9.	AGGREGA:	TE AMOUNT BENEFICIALLY OWNED	BY EACH REPORTING PERSON	
10.			OW (9) EXCLUDES CERTAIN SHARES*	
11.	PERCENT 7.57%	OF CLASS REPRESENTED BY AMC	OUNT IN ROW (9)	
	TYPE OF	REPORTING PERSON (SEE INSTE	RUCTIONS)	
	IA			
		*SEE INSTRUCTIONS BEFOR		
** See I	Item 4.			
			Page 3 of	
tem 1(a	a). Name	of Issuer:	Advanced Magnetics Inc	
tem 1(b		ess of Issuers's Principal: ative Offices:	125 Cambridgepark Dr. 6th Fl Cambridge, MA 02140	
item 2(a	a). Name	of Person Filing:	David Banerjee Palo Alto Investors	
item 2(b		ess of Principal Business ce or, if None, Residence:	470 University Avenue, Palo Alto California 94301	

U.S.A.

Item 2(c). Citizenship:

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

- Item 2(e). CUSIP Number:
- Item 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13d-1(b) OR 13d-2(b) or (c), CHECK WHETHER THE PERSON FILING IS A:
  - (e) An investment adviser in accordance with 240.13-1(b)(10(ii)(E)
- Item 4. OWNERSHIP
  - (a) 855,100
  - (b) 7.57%
  - (c) (i) sole voting power: 855,100
    - (ii) shared voting power:
    - (iii) sole dispositive power:
    - (iv) shared dispositive power:
- 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: Holding of more than 5%
- Item 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY:

Not Applicable

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Item 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP:

Not Applicable

Item 9. NOTICE OF DISSOLUTION OF GROUP:

Not Applicable

Item 10. 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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#### SIGNATURE

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

Dated: May 1, 2006 /s/ David Banerjee

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Palo Alto Investors