ADVANCED MAGNETICS INC Form SC 13G April 27, 2006

11:06 PM 4/27/2006

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. ___)*

Advanced Magnetics Inc

(Name of Issuer)

Common Shares

(Title of Class of Securities)

(CUSIP Number)

April 27, 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

PAI	LO ALT	O INVESTORS	
2. CHE	ECK TH		MBER OF A GROUP* (a) [] (b) []
3. SEC	C USE	ONLY	
4. Cit		hip or Place of Organizat tates	ion
NUMBER		5. SOLE VOTING POWER 57	
OWNED BY		6. SHARED VOTING POWER	
EACH REPORTIN PERSON	NG	7. SOLE DISPOSITIVE POWE	
		8. SHARED DISPOSITIVE PO	WER
9. AGG	GREGAT		ED BY EACH REPORTING PERSON
10. CHE		THE AGGREGATE AMOUNT IN	ROW (9) EXCLUDES CERTAIN SHARES
		OF CLASS REPRESENTED BY A	
12. TYF	PE OF	REPORTING PERSON (SEE INS	TRUCTIONS)
IA			
See Item	4.	*SEE INSTRUCTIONS BEF	ORE FILLING OUT! Page
em 1(a).	Name	of Issuer:	Advanced Magnetics Inc
em 1(b).		ss of Issuers's Principal tive Offices:	: 125 Cambridgepark Dr. 6th Cambridge, MA 02140
em 2(a).	Name	of Person Filing:	David Banerjee Palo Alto Investors
em 2(b).		ss of Principal Business e or, if None, Residence:	470 University Avenue, Palo 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) 574,800
 - (b) 5.09%
 - (c) (i) sole voting power: 574,800
 - (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: April 27, 2006 /s/ David Banerjee

Palo Alto Investors