AeroVironment Inc Form SC 13G/A March 10, 2010

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

## SCHEDULE 13G

### Under the Securities Exchange Act of 1934 (Amendment No. 01)\*

AeroVironment Inc.

(Name of Issuer)

Common

(Title of Class of Securities)

008073108

(CUSIP Number)

February 28, 2010

(Date of Event Which Requires Filing of this Statement)

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

x Rule 13d-1(b)

- o Rule 13d-1(c)
- o Rule 13d-1(d)

\* 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 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).

 1
 NAMES OF REPORTING PERSONS

 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

 BAMCO INC /NY/

 952705790

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

- (a) o(b) x
- . .

SEC USE ONLY

3

2

CITIZENSHIP OR PLACE OF ORGANIZATION

4

New York

SOLE VOTING POWER

0

5

NUMBER OF		
SHARES BENEFICIALLY	6	SHARED VOTING POWER
OWNED BY EACH REPORTING	U	350,000
PERSON WITH:	7	SOLE DISPOSITIVE POWER
	1	0
	8	SHARED DISPOSITIVE POWER

350,000

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

350,000

10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	1.6%
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
12	ΙΑ
	FOOTNOTES

NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) 1 Baron Capital Group, Inc. 952705790 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) 2 (a) o (b) x SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 New York SOLE VOTING POWER 5 0 NUMBER OF SHARED VOTING POWER **SHARES BENEFICIALLY** 6 **OWNED BY** 350,000 EACH REPORTING SOLE DISPOSITIVE POWER PERSON WITH: 7 0 SHARED DISPOSITIVE POWER 8 350,000 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

350,000

10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	1.6%
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
12	НС

NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) 1 Baron Capital Management, Inc. 952705790 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) 2 (a) o (b) x SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 New York SOLE VOTING POWER 5 0 NUMBER OF SHARED VOTING POWER **SHARES** BENEFICIALLY 6 **OWNED BY** 0 EACH REPORTING SOLE DISPOSITIVE POWER PERSON WITH: 7 0 SHARED DISPOSITIVE POWER 8 0 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

0

10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	0.0%
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	ΙΑ

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)							
1	Ronald Baron 952705790							
2	CHEC	K THE	APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)					
2	(a) o							
	(b) x							
3	SEC U	ISE ON	LY					
4	CITIZENSHIP OR PLACE OF ORGANIZATION							
-	New York							
		5	SOLE VOTING POWER					
			0					
NUMBER SHARES BENEFICI		6	SHARED VOTING POWER					
OWNED B EACH	Y		350,000					
REPORTIN PERSON V		7	SOLE DISPOSITIVE POWER					
			0					
		Q	SHARED DISPOSITIVE POWER					
		8	350,000					

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

350,000

9

10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SI INSTRUCTIONS)						
	0						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	1.6%						
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)						
	IN						

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Baron Small Cap Fund 952705790				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS (a) o (b) x				
3	SEC USE ONLY				
4	CITIZ New Y		P OR PLACE OF ORGANIZATION		
		5	SOLE VOTING POWER		
NUMBER SHARES BENEFICI OWNED B EACH REPORTIN PERSON V	IALLY 3Y NG	6 7	SHARED VOTING POWER 350,000 SOLE DISPOSITIVE POWER 0		
		8	SHARED DISPOSITIVE POWER 350,000		
	AGGR	REGAT	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		

9

350,000

10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (S INSTRUCTIONS)					
	0					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	1.6%					
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)					
	IC					

Item 1.

			(a)	Name of Issuer AeroVironment Inc.
		(b)		Address of Issuer's Principal Executive Offices 181 W Huntington Drive, Suite 202 Monrovia, CA 91016
Item 2.				
			(a)	Name of Person Filing Baron Capital Group, Inc. ("BCG") BAMCO, Inc. ("BAMCO") Baron Small Cap Fund ("BSC") Ronald Baron
	(ხ	))	Address	of Principal Business Office or, if none, Residence 767 Fifth Avenue, 49th Floor New York, NY 10153
				Citizenship York corporations. Ronald Baron is a citizen of the United States. f a Massachusetts Business Trust.
		(d	)	Title of Class of Securities Common
			(e)	CUSIP Number 008073108
Item 3. If that	nis statem	ent is filed	pursuant to §§2	40.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is
(	(a)	0	Broker or dea	aler registered under section 15 of the Act (15 U.S.C. 780).
	(b)	0	Bank	as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
(c)	)	o Ir	surance compar	ny as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
(d) x Inv	estment c	ompany reg	gistered under so	ection 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
	(e)	х	An inve	stment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
(f)	0	An employ	ee benefit plan	or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
(g)	х	A parent h	olding company	v or control person in accordance with § 240.13d-1(b)(1)(ii)(G);

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- (h) o A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) o A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
  - (j) x A non-U.S. institution in accordance with 240.13d-1(b)(1)(ii)(J).
- (k)oA group, in accordance with § 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:

Item 4.

## Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a)	Amount beneficially owned: 350,000
	(b) Percent of class: 1.6
(c)	Number of shares as to which the person has:
(i)	Sole power to vote or to direct the vote: 0
(ii)	Shared power to vote or to direct the vote: 350,000
(iii)	Sole power to dispose or to direct the disposition of: 0
(iv)	Shared power to dispose or to direct the disposition of: 350,000
	Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following x.

Filing Persons have ceased being the beneficial owners of more than 5% of the filing class of securities reported herein.

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

Not Applicable.

Item 5.

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

BAMCO and BCM are subsidiaries of BCG. Ronald Baron owns a controlling interest in BCG.

Item 8.	Identification and Classification of Members of the Group
Please see Item 3.	

Item 9.

Notice of Dissolution of Group

Not applicable.

Item Certification 10.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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.

#### SIGNATURE

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

	Baron Capital Group, Inc.	
Date: March 10, 2010	By:	/s/ Ronald Baron Name: Ronald Baron Title: Chairman and CEO
	BAMCO, Inc.	
Date: March 10, 2010	By:	/s/ Ronald Baron Name: Ronald Baron Title: Chairman and CEO
	Baron Capital Management, Inc.	
Date: March 10, 2010	By:	/s/ Ronald Baron Name: Ronald Baron Title: Chairman and CEO
	Ronald Baron	
Date: March 10, 2010	By:	/s/ Ronald Baron Name: Ronald Baron

Title: Individually

# **Baron Small Cap Fund**

Date: March 10, 2010

By:

/s/ Ronald Baron Name: Ronald Baron Title: CEO

Footnotes:

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001)