

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2005-05-02** | Period of Report: **2005-04-28**
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ISSUER

ASPECT MEDICAL SYSTEMS INC

CIK: **886235** | IRS No.: **954154357** | State of Incorporation: **DE** | Fiscal Year End: **1231**
SIC: **3845** Electromedical & electrotherapeutic apparatus

Mailing Address
141 NEWTON STREET
NEWTON MA 02464-1505

Business Address
141 NEEDHAM STREET
NEWTON MA 02464-1505
(617) 559-7857

REPORTING OWNER

BOSTON SCIENTIFIC CORP

CIK: **885725** | State of Incorporation: **DE** | Fiscal Year End: **1231**
Type: **4** | Act: **34** | File No.: **000-24663** | Film No.: **05791297**
SIC: **3841** Surgical & medical instruments & apparatus

Business Address
ONE BOSTON SCIENTIFIC PL
NATICK MA 01760-1537
5086508000

FORM 4

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

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

1. Name and Address of Reporting Person BOSTON SCIENTIFIC CORP			2. Issuer Name and Ticker or Trading Symbol ASPECT MEDICAL SYSTEMS INC [ASPM]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title) <input type="checkbox"/> Other (specify below)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 04/28/2005			6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person		
ONE BOSTON SCIENTIFIC PLACE			4. If Amendment, Date Original Filed(Month/Day/Year)					
(Street) NATICK, MA 017601537								
(City)	(State)	(Zip)						

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) (Instr. 3, 4 and 5)			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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	04/28/2005		P		100	A	\$26.29	5,793,888	D	
Common Stock	04/28/2005		P		100	A	\$26.32	5,793,988	D	
Common Stock	04/28/2005		P		2,400	A	\$26.4	5,796,388	D	
Common Stock	04/28/2005		P		21,423	A	\$26.5	5,817,811	D	
Common Stock	04/28/2005		P		3,300	A	\$26.6	5,821,111	D	
Common Stock	04/28/2005		P		200	A	\$26.65	5,821,311	D	
Common Stock	04/28/2005		P		500	A	\$26.67	5,821,811	D	
Common Stock	04/28/2005		P		2,263	A	\$26.68	5,824,074	D	
Common Stock	04/28/2005		P		1,000	A	\$26.69	5,825,074	D	
Common Stock	04/28/2005		P		100	A	\$26.73	5,825,174	D	
Common Stock	04/28/2005		P		600	A	\$26.8	5,825,774	D	
Common Stock	04/28/2005		P		100	A	\$26.85	5,825,874	D	
Common Stock	04/28/2005		P		100	A	\$26.88	5,825,974	D	
Common Stock	04/28/2005		P		87	A	\$26.89	5,826,061	D	
Common Stock	04/28/2005		P		100	A	\$26.91	5,826,161	D	

Common Stock	04/28/2005		P		113	A	\$26.92	5,826,274	D	
Common Stock	04/28/2005		P		300	A	\$26.94	5,826,574	D	
Common Stock	04/28/2005		P		55	A	\$27.03	5,826,629	D	
Common Stock	04/28/2005		P		445	A	\$27.12	5,827,074	D	
Common Stock	04/28/2005		P		100	A	\$27.13	5,827,174	D	
Common Stock	04/28/2005		P		300	A	\$27.14	5,827,474	D	
Common Stock	04/28/2005		P		600	A	\$27.16	5,828,074	D	
Common Stock	04/28/2005		P		168	A	\$27.18	5,828,242	D	
Common Stock	04/28/2005		P		632	A	\$27.19	5,828,874	D	
Common Stock	04/28/2005		P		200	A	\$27.3	5,829,074	D	
Common Stock	04/28/2005		P		400	A	\$27.31	5,829,474	D	
Common Stock	04/28/2005		P		100	A	\$27.4	5,829,574	D	
Common Stock	04/28/2005		P		200	A	\$27.45	5,829,774	D	
Common Stock	04/28/2005		P		100	A	\$27.49	5,829,874	D	
Common Stock	04/28/2005		P		200	A	\$27.51	5,830,074	D	

**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)				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

Signatures

By: /s/Lawrence J. Knopf, Vice President

** Signature of Reporting Person

04/29/2005

Date

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

* 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).

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.