

ELECTRO SCIENTIFIC INDUSTRIES INC
 Form 4
 May 16, 2011

FORM 4

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

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Nierenberg Investment Management Company, Inc.

2. Issuer Name and Ticker or Trading Symbol
 ELECTRO SCIENTIFIC INDUSTRIES INC [ESIO]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 19605 NE 8TH STREET
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 05/12/2011

Director 10% Owner
 Officer (give title below) Other (specify below)

CAMAS, WA 98607

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(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 Ownership (Instr. 4)			
			Code	V	Amount	(A) or (D)	Price			
Common Stock	05/12/2011		A		890 ⁽¹⁾	A	\$ 0	573,129 ⁽²⁾	I	By The D3 Family Fund, LP
Common Stock	05/12/2011		A		3,580 ⁽¹⁾	A	\$ 0	2,509,526 ⁽²⁾	I	By The D3 Family Bulldog Fund, LP
Common Stock	05/12/2011		A		430 ⁽¹⁾	A	\$ 0	313,995 ⁽²⁾	I	By The D3 Family Canadian Fund, LP

Common
Stock

432,734 ⁽²⁾ I

By The
DIII
Family
Offshore
Fund, LP

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

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 control number.

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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)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Following Transaction (Instr. 5)
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Nierenberg Investment Management Company, Inc. 19605 NE 8TH STREET CAMAS, WA 98607	X	X		
D3 Family Fund, LP 19605 NE 8TH STREET CAMAS, WA 98607			X	
D3 Family Bulldog Fund, LP 19605 NE 8TH STREET CAMAS, WA 98607			X	
D3 Family Canadian Fund, LP 19605 NE 8TH STREET CAMAS, WA 98607			X	

