FORM	4
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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

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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 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Respons	les)		r									
1. Name and Address of Reporting Person [*] ROTH RONALD G			2. Issuer Name and Ticker or Trading Symbol APA OPTICS INC /MN/ [APAT]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner			
2950 84TH LANE	(First) E NE	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 12/30/2003					Officer (give title below)	Other (specify b	below)		
(Street) BLAINE, MN 55449			4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(State)	(Zip)	Table I - Non-Derivative Securities Acqu					s Acqu	irred, Disposed of, or Beneficially Owned			
1.Title of Security (Instr. 3)				Code (Instr. 8)		(A) or Disposed of (D)		of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form:	Beneficial	
			(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)	
Common Stock		12/30/2003		Р		2,592	А	\$ 2.14	327,800	D		
Common Stock		12/30/2003		Р		2,000	А	\$ 2.10	329,800	D		

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

Persons who respond to the collection of information

SEC 1474 (9-02)

contained in this form are not required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)													
1. Title of	2.	3. Transaction	3A. Deemed	4.	5.		6. Date Exer	cisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transaction	Nur	Number and Expiration Date A		Amou	unt of	Derivative	Derivative	Ownership	of Indirect	
Security	or Exercise	(Month/Day/Year)	any	Code	of	of (Month/Day/Year) U		Unde	rlying	Security	Securities	Form of	Beneficial	
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Der	· · · · · · · · · · · · · · · · · · ·		Securities (Instr. 5)		Beneficially	Derivative	Ownership		
	Derivative				Sec	ecurities		(Instr. 3 and			Owned	Security:	(Instr. 4)	
	Security				Acc	uired			4)			Following	Direct (D)	
					(A)	or						Reported	or Indirect	
					Dis	posed						Transaction(s)	(I)	
					of (D)						(Instr. 4)	(Instr. 4)	
						tr. 3,								
					4, a	nd 5)								
										Amount				
							Date	Expiration		or				
							Exercisable		Title	Number				
							Excicisable	Date		of				
				Code V	(A)	(D)				Shares				

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
ROTH RONALD G 2950 84TH LANE NE BLAINE, MN 55449	Х						

Signatures

/s/ Ronald G. Roth	12/31/2003
***Signature of Reporting Person	Date

Explanation of Responses:

- * 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.

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