

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

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934  
(AMENDMENT NO. 1)\*

-----  
APA OPTICS, INC.

(NAME OF ISSUER)

-----  
COMMON STOCK, \$0.01 PAR VALUE

(TITLE OF CLASS OF SECURITIES)

-----  
001853 10 0

(CUSIP NUMBER)

The remainder of this cover page should 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).

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-----  
1      NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)

Kenneth A. Olsen

-----  
2      CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a) [ ]  
(b) [ ]

N/A

-----  
3      SEC USE ONLY

-----  
4      CITIZENSHIP OR PLACE OF ORGANIZATION  
USA

-----  
5      SOLE VOTING POWER  
NUMBER OF                      842,832  
SHARES

-----  
6      SHARED VOTING POWER

BENEFICIALLY OWNED BY

-----  
7 SOLE DISPOSITIVE POWER  
842,832  
EACH REPORTING

-----  
8 SHARED DISPOSITIVE POWER  
PERSON WITH

-----  
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
823,500

-----  
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW 9 EXCLUDES CERTAIN SHARES\* [X]

-----  
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  
9.2%

-----  
12 TYPE OF REPORTING PERSON\*  
IN

-----  
14. Check the appropriate box to designate the rule pursuant to which this Schedule is filed:  
[ ] Rule 13d-1 (b)  
[ ] Rule 13d-1 (c)  
[X] Rule 13d-1 (d)

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Item 1

- (a) Name of Issuer:  
APA Optics, Inc.
- (b) Address of Issuer's Principal Executive Offices:  
2950 NE 84th Lane  
Blaine, Minnesota 55434

Item 2

- (a) Name of Person Filing  
Kenneth A. Olsen
- (b) Address of Principal Business Office or, if none, Residence)  
2950 NE 84th Lane  
Blaine, Minnesota 55434
- (c) Citizenship:  
United States
- (d) Title of Class of Securities:  
Common Stock, \$0.01 Par Value
- (e) CUSIP Number:  
001853 10 0

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Item 3

If this statement is filed pursuant to ss. 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a: Not Applicable

- (a)  Broker or dealer registered under section 15 of the Act.
- (b)  Bank as defined in section 3(a)(6) of the Act.
- (c)  Insurance company as defined in section 3(a)(19) of the Act.
- (d)  Investment company registered under section 8 of the Investment Company Act of 1940.
- (e)  An investment advisor in accordance with rule 13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with rule 13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with rule 13d-1(b)(1)(ii)(G);
- (h)  A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i)  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;
- (j)  Group, in accordance with rule 13d-1(b)(1)(ii)(J).

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: 823,500\*
- (b) Percent of Class: 9.2%
- (c) Number of shares as to which the person has:
  - (i) Sole power to vote or to direct the vote: 842,832
  - (ii) Shared power to vote or to direct the vote: -0-
  - (iii) Sole power to dispose or to direct the disposition of: 842,832
  - (iv) Shared power to dispose or to direct the disposition of: -0-

\*Excludes 19,332 Shares held by Reporting Person as Trustee of Trust for Jain children. Reporting person has sole power to vote, dispose or direct the disposition of said Trust shares but disclaims beneficial ownership of said shares.

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Item 5

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 .

Item 6

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

N/A

Item 7

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

N/A

Item 8

Identification and Classification of Members of the Group.

N/A

Item 9

Notice of Dissolution of Group.

N/A

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Item 10

Certification:

Not Applicable

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.

February 14, 2000 (Date)

/s/ Kenneth A. Olsen (Signature)

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Kenneth A. Olsen (Name/Title)