SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
Form 10-QSB
X
Quarterly report pursuant to Section 13 or $15(d)$
of the
Securitie
s
Exchange
Act of
1934
For the quarterly period ended December 31, 1996 or
Transition report pursuant to Section 13 or $15(\mathrm{~d})$ of the Securities Exchange Act 1934

For the transition period from to

Commission File Number 0-16106
APA Optics, Inc.
(exact name of small business issuer as specified in its charter)

Minnesota
41-1347235
(State or other jurisdiction of
(I.R.S. Employer Identification No.)
incorporation or organization)
2950 N.E. 84th Lane, Blaine, Minnesota 55449
(Address of principal executive offices and zip code)
Issuer's telephone number, including area code: (612)
784-4995
Indicate whether the issuer (1) has filed all reports
required to be filed by Section 13 or 15 (d) of the
Securities Exchange Act of 1934 during the preceding 12
months (or for such shorter period that the issuer was
required to file such reports), and (2) has been subject to the filing requirement for the past 90 days.

Yes X No
Indicate the number of shares outstanding of each of the
issuer's classes of common stock, as of the latest
practicable date:
Class:
Outstanding at December 31, 1996
Common stock, par value \$.01
8, 304, 624

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PART 1, FINANCIAL INFORMATION
ITEM 1, FINANCIAL STATEMENTS
APA OPTICS, INC.
CONDENSED BALANCE SHEETS
<TABLE>
<CAPTION>
ASSETS
December 31 March 31
19961996
<S>
<C> <C>
CURRENT ASSETS:
(Unaudited) (Audited) *
Cash and short-term investments
$\$ 4,312,813 \quad \$ 2,256,309$
Accounts receivable
779,565
406,852
Inventories:



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APA OPTICS, INC. CONDENSED STATEMENTS OF CASH FLOWS (UNAUDITED)
<TABLE>
<CAPTION>
Nine Months Ended
December 31

| 1996 | 1995 |
| :--- | :--- |
| <S> |  |
| <C> |  |

<C> <C>

OPERATING ACTIVITIES
Net income (loss)
\$ (110,302) \$ 32,202

Adjustments to reconcile net income (loss) to net cash
provided by operating activities:
Depreciation and amortization
333,863
303,708
Changes in operating assets and liabilities: Accounts receivable
(372,713) (63,009)
Inventories and prepaid expenses
$(10,811)$
1,622
Costs in excess of billings on research contracts
210,658
Accounts payable and accrued expenses
30,836
$(15,271)$
Other assets
$(20,429)$
(194,534)
Net cash provided by (used in) operating activities


1. In the opinion of management, the information furnished reflects all adjustments which are necessary to a fair statement of the results of the interim periods presented. All adjustments were of a normal recurring nature. The results of any interim period are not necessarily indicative of results for the full year.

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ITEM 2. MANAGEMENT'S DISCUSSION
AND ANALYSIS OF FINANCIAL CONDITION
AND RESULTS OF OPERATIONS

Results of Operations:
Revenues for the third quarter of fiscal 1997 ended December 31, 1996 were $\$ 666,014$, an increase of $12 \%$ from the third quarter of fiscal 1997 ended December 31, 1995. The third quarter revenues of fiscal 1997 are down 1\% as compared to the second quarter of fiscal 1997. Revenues for the first three quarters of fiscal 1997 are up one percent as compared to the first three quarters of fiscal 1996.

For the third quarter of fiscal 1997, the Company is reporting a loss of $\$ 40,022$ as compared to a loss of $\$ 6,763$ in the second quarter of fiscal 1997. For the first three quarters of fiscal 1997, the Company is reporting a loss of \$110,302 as compared to a profit of 32,202 for the first three quarters of fiscal 1996. Although the Company has a loss for the first nine months of fiscal 1997 as compared to a profit for the first nine months of fiscal 1996, the Company's gross profit margin increased from 22\% in fiscal 1996 to $30 \%$ in fiscal 1997. The main reason for the increased losses in spite of the increased gross profit margin in 1997, is the significant increase in internal research and development and administrative costs relative to the move toward product manufacturing. Research and development costs have increased from $\$ 2,467$ for the first nine months of fiscal 1996 to $\$ 312,121$ for the first nine months of fiscal 1997. The Company plans to continue these IR\&D costs attributed to further development of the WDM receiver in the following quarters.

Liquidity and Capital Resources:

The Company's cash balance at December 31, 1996 is
$\$ 4,312,813$ compared to $\$ 2,256,309$ at March 31, 1996. The quarter of fiscal 1997. The cash increase can be attributed to the Company completing additional financing with Aberdeen, South Dakota. The Company continues construction of the Aberdeen facility and plans to complete construction by March 1997.

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> PART II. OTHER INFORMATION

ITEMS 1 - 5. Not Applicable.
ITEM 6. Exhibits and Reports on Form 8-K.
(a) Exhibit 11: Statement RE: Computation of per share earnings.
(b) Exhibit 27: Financial Data Schedules

There were no reports on Form 8-K filed during the three months ended December 31, 1996.

Signatures
In accordance with the requirements of the Securities
Exchange Act of 1934, the issuer has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

APA OPTICS, INC.
February 7, 1997
s/s Anil K. Jain
Date
Anil K. Jain
President
Principal Executive Officer
Treasurer \& Principal Financial
Officer

February 7, 1997
s/s Randal J. Becker
Date
Randal J. Becker
Principal Accounting Officer
<TABLE> <S> <C>
<ARTICLE> 5

| <S> | <C> |  |
| :---: | :---: | :---: |
| <PERIOD-TYPE> | 9-MOS |  |
| <EISCAL-YEAR-END> |  | MAR-31-1997 |
| <PERIOD-END> |  | DEC-31-1996 |
| <CASH> |  | $4,312,813$ |
| <SECURITIES> |  | 0 |
| <RECEIVABLES> |  | 779,565 |
| <ALLOWANCES> |  | 0 |
| <INVENTORY> |  | 159,585 |
| <CURRENT-ASSETS> |  | 5,330,960 |
| <PP\&E> |  | 1,394,095 |
| <DEPRECIATION> |  | 333,863 |
| <TOTAL-ASSETS> |  | 9,551,721 |
| <CURRENT-LIABILITIES> |  | 334,957 |
| <BONDS> |  | 0 |
| <PREFERRED-MANDATORY> |  | 0 |
| <PREFERRED> |  | 0 |
| <COMMON> |  | 83,046 |
| <OTHER-SE> |  | 5,195,143 |
| <TOTAL-LIABILITY-AND-EQUITY> |  | 9,551,721 |
| <SALES> |  | 1,877,068 |
| <TOTAL-REVENUES> |  | 1,877,068 |
| <CGS> |  | 1,321,651 |
| <TOTAL-COSTS> |  | $1,321,651$ |
| <OTHER-EXPENSES> |  | 754,192 |
| <LOSS-PROVISION> |  | 0 |
| <INTEREST-EXPENSE> |  | 110,567 |
| <INCOME-PRETAX> |  | $(108,872)$ |
| <INCOME-TAX> |  | 1,430 |
| <INCOME-CONTINUING> |  | $(110,302)$ |
| <DISCONTINUED> |  | 0 |
| <EXTRAORDINARY> |  | 0 |
| <CHANGES> |  | 0 |
| <NET-INCOME> |  | $(110,302)$ |
| <EPS-PRIMARY> |  | (.01) |
| <EPS-DILUTED> |  | (.01) |

Exhibit 11

APA OPTICS, Inc.

Statement RE: Computation
of Per Share Earnings

| months ended | Nine months ended |
| :---: | :---: |
| December 31 | December 31 |
| 19961995 | 1996 |
| 1995 |  |
| Average common <br> shares outstanding | $\begin{aligned} & 8,304,624 \\ & 7,651,545 \end{aligned}$ |
| 7,986,007 8,155,944 | $7,651,545$ |
| Dilutive stock options and warrants (A) |  |
| 0 43,562 | 0 |
| 0 |  |
| Total |  |
| 8,304,624 8,029,569 | 8,155,944 |
| 7,651,545 |  |
| Net income (loss) | \$ ( 40,022 ) |
| \$ 33,894 \$ (110,302) | \$ 32,202 |
| Per share amount |  |
| \$(.00) \$.00 | \$(.01) |
| \$. 00 |  |
| (A) Calculated using the "treasur | " method. |

