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SEC 1972 (6-02) **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 control number.**

ATTENTION

Failure to file notice in the appropriate states will not result in a loss of the federal exemption. Conversely, failure to file the appropriate federal notice will not result in a loss of an available state exemption state exemption unless such exemption is predicated on the filing of a federal notice.

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

PROCESSED
SEP 14 2004
THOMSON
FINANCIAL

FORM D

NOTICE OF SALE OF SECURITIES PURSUANT TO REGULATION D, SECTION 4(6), AND/OR UNIFORM LIMITED OFFERING EXEMPTION

SEC USE ONLY		
Prefix		Serial
DATE RECEIVED		

Name of Offering ([ ] check if this is an amendment and name has changed, and indicate change.) Up to16,842,231 Shares of Series E Preferred Stock; 7,279,986 Shares of Common Stock

Filing Under (Check box(es) that apply): [ ] Rule 504 [ ] Rule 505 [x] Rule 506 [ ] Section 4(6) [ ] ULOE

Type of Filing: [x] New Filing [ ] Amendment



A. BASIC IDENTIFICATION DATA

1. Enter the information requested about the issuer

Name of Issuer ([ ] check if this is an amendment and name has changed, and indicate change.)
American Fiber Systems Holding Corp.

Address of Executive Offices (Number and Street, City, State, Zip Code)	Telephone Number (Including Area Code)
100 Meridian Centre, Suite 250, Rochester, New York 14618	(585) 340-5400

Address of Principal Business Operations (Number and Street, City, State, Zip Code) Telephone Number (Including Area Code)
(If different from Executive Offices)

Brief Description of Business
Construction of local fiber optic infrastructure.

Type of Business Organization

[x] corporation [ ] limited partnership, already formed [ ] other (please specify):

[ ] business trust [ ] limited partnership, to be formed

Month Year

Actual or Estimated Date of Incorporation or Organization: [1] 1] [0]0] [x] Actual [ ] Estimated

Jurisdiction of Incorporation or Organization: (Enter two-letter U.S. Postal Service abbreviation for State: CN for Canada; FN for other foreign jurisdiction) [D] [E]

GENERAL INSTRUCTIONS

Federal:

Who Must File: All issuers making an offering of securities in reliance on an exemption under Regulation D or Section 4(6), 17 CFR 230.501 et seq. or 15 U.S.C. 77d(6).

When to File: A notice must be filed no later than 15 days after the first sale of securities in the offering. A notice is deemed filed with the U.S. Securities and Exchange Commission (SEC) on the earlier of the date it is received by the SEC at the address given below or, if received at that address after the date on which it is due, on the date it was mailed by United States registered or certified mail to that address.

Where to File: U.S. Securities and Exchange Commission, 450 Fifth Street, N.W., Washington, D.C. 20549.

Copies Required: Five (5) copies of this notice must be filed with the SEC, one of which must be manually signed. Any copies not manually signed must be photocopies of manually signed copy or bear typed or printed signatures.

Information Required: A new filing must contain all information requested. Amendments need only report the name of the issuer and offering, any changes thereto, the information requested in Part C, and any material changes from the information previously supplied in Parts A and B. Part E and the Appendix need not be filed with the SEC.

Filing Fee: There is no federal filing fee.

State:

This notice shall be used to indicate reliance on the Uniform Limited Offering Exemption (ULOE) for sales of securities in those states that have adopted ULOE and that have adopted this form. Issuers relying on ULOE must file a separate notice with the Securities Administrator in each state where sales are to be, or have been made. If a state requires the payment of a fee as a precondition to the claim for the exemption, a fee in the proper amount shall accompany this form. This notice shall be filed in the appropriate states in accordance with state law. The Appendix in the notice constitutes a part of this notice and must be completed.

A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;

- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply: [ ] Promoter [x] Beneficial Owner [x] Executive Officer [x] Director [ ] General and/or Managing Partner

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Full Name (Last name first, if individual)
Rusin, David G.

Business or Residence Address (Number and Street, City, State, Zip Code)
100 Meridian Centre, Suite 250, Rochester, NY 14618

Check Box(es) that Apply: [ ] Promoter [ ] Beneficial Owner [x] Executive Officer [ ] Director [ ] General and/or Managing Partner

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Full Name (Last name first, if individual)
Ramachandran, Gita

Business or Residence Address (Number and Street, City, State, Zip Code)
100 Meridian Centre, Suite 250, Rochester, New York 14618

Check Box(es) that Apply: [ ] Promoter [x] Beneficial Owner [ ] Executive Officer [ ] Director [ ] General and/or Managing Partner

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Full Name (Last name first, if individual)
North Bay Opportunities, L.P.

Business or Residence Address (Number and Street, City, State, Zip Code)
3600 South Lake Drive, St. Francis, Wisconsin 53235-3716

Check Box(es) that Apply: [ ] Promoter [x] Beneficial Owner [ ] Executive Officer [ ] Director [ ] General and/or Managing Partner

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Full Name (Last name first, if individual)
Flynn, Lawrence Jr.

Business or Residence Address (Number and Street, City, State, Zip Code)
160 Gomez Road, Hobe Sound, Florida 33455

Check Box(es) that Apply: [ ] Promoter [x] Beneficial Owner [ ] Executive Officer [ ] Director [ ] General and/or Managing Partner

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Full Name (Last name first, if individual)
Sierra Ventures VII, L.P.

Business or Residence Address (Number and Street, City, State, Zip Code)
2884 Sand Hill Road, Building Four, Suite 100, Menlo Park, California 94025

Check Box(es) that Apply: [ ] Promoter [x] Beneficial Owner [ ] Executive Officer [ ] Director [ ] General and/or Managing Partner

Full Name (Last name first, if individual)
Lucent Ventures Partners II, LLC

Business or Residence Address (Number and Street, City, State, Zip Code)
600 Mountain Avenue, Room 6G-212, Murray Hill, New Jersey 07974

Check Box(es) that Apply: [ ] Promoter [x] Beneficial Owner [ ] Executive Officer [ ] Director [ ] General and/or Managing Partner

Full Name (Last name first, if individual)
Sierra Ventures VIII-A, L.P.

Business or Residence Address (Number and Street, City, State, Zip Code)
2884 Sand Hill Road, Building Four, Suite 100, Menlo Park, California 94025

Check Box(es) that Apply: [ ] Promoter [ ] Beneficial Owner [ ] Executive Officer [x] Director [ ] General and/or Managing Partner

Full Name (Last name first, if individual)
Drazan, Jeffrey M.

Business or Residence Address (Number and Street, City, State, Zip Code)
2884 Sand Hill Road, Building Four, Suite 100, Menlo Park, California 94025

Check Box(es) that Apply: [ ] Promoter [ ] Beneficial Owner [ ] Executive Officer [x] Director [ ] General and/or Managing Partner

Full Name (Last name first, if individual)
Malone, John

Business or Residence Address (Number and Street, City, State, Zip Code)
210 Lake Road, Far Hills, New Jersey 07931

Check Box(es) that Apply: [ ] Promoter [ ] Beneficial Owner [ ] Executive Officer [x] Director [ ] General and/or Managing Partner

Full Name (Last name first, if individual)
Morrissette, Mark J.

Business or Residence Address (Number and Street, City, State, Zip Code)
Two City Center, Fifth Floor, Portland, Maine 04101

Check Box(es) that Apply: [ ] Promoter [x] Beneficial Owner [ ] Executive Officer [ ] Director [ ] General and/or Managing Partner

Full Name (Last name first, if individual)
North Atlantic Venture Fund III, A Limited Partnership

Business or Residence Address (Number and Street, City, State, Zip Code)
Two City Center, Fifth Floor, Portland, Maine 04101

(Use blank sheet, or copy and use additional copies of this sheet, as necessary.)

B. INFORMATION ABOUT OFFERING

	Yes	No
1. Has the issuer sold, or does the issuer intend to sell, to non-accredited investors in this offering?.....	[ ]	[x]

Answer also in Appendix, Column 2, if filing under ULOE.

2. What is the minimum investment that will be accepted from any individual?..... $10,000.00

	Yes	No
3. Does the offering permit joint ownership of a single unit?.....	[x]	[ ]

4. Enter the information requested for each person who has been or will be paid or given, directly or indirectly, any commission or similar remuneration for solicitation of purchasers in connection with sales of securities in the offering. If a person to be listed is an associated person or agent of a broker or dealer registered with the SEC and/or with a state or states, list the name of the broker or dealer. If more than five (5) persons to be listed are associated persons of such a broker or dealer, you may set forth the information for that broker or dealer only.

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers
(Check "All States" or check individual States) ..... [ ] All States

[AL]	[AK]	[AZ]	[AR]	[CA]	[CO]	[CT]	[DE]	[DC]	[FL]	[GA]	[HI]	[ID]
[IL]	[IN]	[IA]	[KS]	[KY]	[LA]	[ME]	[MD]	[MA]	[MI]	[MN]	[MS]	[MO]
[MT]	[NE]	[NV]	[NH]	[NJ]	[NM]	[NY]	[NC]	[ND]	[OH]	[OK]	[OR]	[PA]
[RI]	[SC]	[SD]	[TN]	[TX]	[UT]	[VT]	[VA]	[WA]	[WV]	[WI]	[WY]	[PR]

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers
(Check "All States" or check individual States) ..... [ ] All States

[AL]	[AK]	[AZ]	[AR]	[CA]	[CO]	[CT]	[DE]	[DC]	[FL]	[GA]	[HI]	[ID]
[IL]	[IN]	[IA]	[KS]	[KY]	[LA]	[ME]	[MD]	[MA]	[MI]	[MN]	[MS]	[MO]
[MT]	[NE]	[NV]	[NH]	[NJ]	[NM]	[NY]	[NC]	[ND]	[OH]	[OK]	[OR]	[PA]
[RI]	[SC]	[SD]	[TN]	[TX]	[UT]	[VT]	[VA]	[WA]	[WV]	[WI]	[WY]	[PR]

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers
(Check "All States" or check individual States) ..... [ ] All States

[AL]	[AK]	[AZ]	[AR]	[CA]	[CO]	[CT]	[DE]	[DC]	[FL]	[GA]	[HI]	[ID]
[IL]	[IN]	[IA]	[KS]	[KY]	[LA]	[ME]	[MD]	[MA]	[MI]	[MN]	[MS]	[MO]
[MT]	[NE]	[NV]	[NH]	[NJ]	[NM]	[NY]	[NC]	[ND]	[OH]	[OK]	[OR]	[PA]
[RI]	[SC]	[SD]	[TN]	[TX]	[UT]	[VT]	[VA]	[WA]	[WV]	[WI]	[WY]	[PR]

(Use blank sheet, or copy and use additional copies of this sheet, as necessary.)

C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS

1. Enter the aggregate offering price of securities included in this offering and the total amount already sold. Enter "0" if answer is "none" or "zero." If the transaction is an exchange offering, check this box ¨ and indicate in the columns below the amounts of the securities offered for exchange and already exchanged.

Type of Security	Aggregate Offering Price	Amount Already Sold
Debt	$	$
Equity	$ 6,000,728	$ 5,600,728
[ ] Common [x] Preferred –Series D		
Convertible Securities (including warrants	$ 750,000	$ 0
Partnership Interests	$	$
Other (Specify_____).	$	$
Total	$ 6,750,728	$ 5,600,728

Answer also in Appendix, Column 3, if filing under ULOE.

2. Enter the number of accredited and non-accredited investors who have purchased securities in this offering and the aggregate dollar amounts of their purchases. For offerings under Rule 504, indicate the number of persons who have purchased securities and the aggregate dollar amount of their purchases on the total lines. Enter "0" if answer is "none" or "zero."

	Number Investors	Aggregate Dollar Amount of Purchases
Accredited Investors	7	$ 5,600,728
Non-accredited Investors	0	$
Total (for filings under Rule 504 only)		$

Answer also in Appendix, Column 4, if filing under ULOE.

3. If this filing is for an offering under Rule 504 or 505, enter the information requested for all securities sold by the issuer, to date, in offerings of the types indicated, the twelve (12) months prior to the first sale of securities in this offering. Classify securities by type listed in Part C-Question 1.

Type of offering	Type of Security	Dollar Amount Sold
Rule 505		$
Regulation A		$
Rule 504		$
Total		$

4. a. Furnish a statement of all expenses in connection with the issuance and distribution of the securities in this offering. Exclude amounts relating solely to organization expenses of the issuer. The information may be given as subject to future contingencies. If the amount of an expenditure is not known, furnish an estimate and check the box to the left of the estimate.

Transfer Agent's Fees	[ ]	$
Printing and Engraving Costs	[x]	$ 125
Legal Fees	[x]	$ 40,000
Accounting Fees	[ ]	$
Engineering Fees	[ ]	$
Sales Commissions (specify finders' fees separately)	[ ]	$
Other Expenses (identify) Blue Sky	[x]	$ 750
Total	[x]	$ 40,875

b. Enter the difference between the aggregate offering price given in response to Part C - Question 1 and total expenses furnished in response to Part C - Question 4.a. This difference is the "adjusted gross proceeds to the issuer." $6,709,853

5. Indicate below the amount of the adjusted gross proceeds to the issuer used or proposed to be used for each of the purposes shown. If the amount for any purpose is not known, furnish an estimate and check the box to the left of the estimate. The total of the payments listed must equal the adjusted gross proceeds to the issuer set forth in response to Part C - Question 4.b above.

	Payments to Officers, Directors, & Affiliates	Payments To Others

Salaries and fees	[ ]	[ ] $
Purchase of real estate	[ ] $	[ ] $
Purchase, rental or leasing and installation of machinery and equipment	[ ] $	[ ] $
Construction or leasing of plant buildings and facilities	[ ] $	[ ] $
Acquisition of other businesses (including the value of securities involved in this offering that may be used in exchange for the assets or securities of another issuer pursuant to a merger)	[ ] $	[x] $ 6,709,853
Repayment of indebtedness	[ ] $	[ ] $
Working capital	[ ] $	[ ] $
Other (specify):	[ ] $	[ ] $
	[ ] $	[ ] $
Column Totals	[ ] $	[ ] $
Total Payments Listed (column totals added)		[x] $ 6,709,853

D. FEDERAL SIGNATURE

The issuer has duly caused this notice to be signed by the undersigned duly authorized person. If this notice is filed under Rule 505, the following signature constitutes an undertaking by the issuer to furnish to the U.S. Securities and Exchange Commission, upon written request of its staff, the information furnished by the issuer to any non-accredited investor pursuant to paragraph (b)(2) of Rule 502.

Issuer (Print or Type)	Signature	Date
American Fiber Systems Holding Corp.		9/7/04
Name of Signer (Print or Type)	**Title of Signer (Print or Type)**	
Gita Ramachandran	Chief Financial Officer and Secretary	

ATTENTION
Intentional misstatements or omissions of fact constitute federal criminal violations. (See 18 U.S.C. 1001.)

E. STATE SIGNATURE

1. Is any party described in 17 CFR 230.262 presently subject to any of the disqualification provisions of such rule?

Yes No
[ ] [x]

See Appendix, Column 5, for state response.

2. The undersigned issuer hereby undertakes to furnish to any state administrator of any state in which this notice is filed, a notice on Form D (17 CFR 239,500) at such times as required by state law.

3. The undersigned issuer hereby undertakes to furnish to the state administrators, upon written request, information furnished by the issuer to offerees.

4. The undersigned issuer represents that the issuer is familiar with the conditions that must be satisfied to be entitled to the Uniform limited Offering Exemption (ULOE) of the state in which this notice is filed and understands that the issuer claiming the availability of this exemption has the burden of establishing that these conditions have been satisfied.

The issuer has read this notification and knows the contents to be true and has duly caused this notice to be signed on its behalf by the undersigned duly authorized person.

Issuer (Print or Type)	Signature	Date
American Fiber Systems Holding Corp.		9/7/04
Name of Signer (Print or Type)	Title (Print or Type)	
Gita Ramachandran	Chief Financial Officer and Secretary	

Instruction:

Print the name and title of the signing representative under his signature for the state portion of this form. One copy of every notice on Form D must be manually signed. Any copies not manually signed must be photocopies of the manually signed copy or bear typed or printed signatures.

APPENDIX

1	2		3	4				5	
	Intend to sell to non-accredited investors in State (Part B-Item 1)		Type of security and aggregate offering price offered in state (Part C-Item 1)	Type of investor and amount purchased in State (Part C-Item 2)				Disqualification under State ULOE (if yes, attach explanation of waiver granted) (Part E-Item 1)	
State	Yes	No		Number of Accredited Investors	Amount	Number of Non-Accredited Investors	Amount	Yes	No
AL									
AK									
AZ									
AR									
CA		X	Series E Preferred Stock & Common Stock	5	$2,100,273	0	0		X
CO									
CT									
DE		X	Series E Preferred Stock & Common Stock	2	$3,500,455	0	0		X
DC									
FL									
GA									
HI									
ID									
IL									
IN									
IA									
KS									
KY									
LA									
ME									
MD									
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PA									
RI									
SC									
SD									
TN									
TX									
UT									
VT									
VA									
WA									
WV									
WI									
WY									
PR									

http://www.sec.gov/divisions/corpfin/forms/formd.htm
Last update: 06/06/2002