SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

SCHEDULE 13G (Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b)(c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No.)

Electro-Optical Sciences, Inc. (MELA)
(Name of Issuer)
Common Stock
(Title of Class of Securities)
285192100
(CUSIP Number)
August 1, 2007
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
[_] Rule 13d-1(b)
[X] Rule 13d-1(c)
[_] Rule 13d-1(d)
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 or otherwise subject to the liabilities of that section of the Act out shall be subject to all other provisions of the Act (however, see the Notes).
CUSIP No. 285192100
 NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)
Bonanza Capital, Ltd.
2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* $ (a) \ \ [_] \\ (b) \ \ [X] $
3. SEC USE ONLY
4. CITIZENSHIP OR PLACE OF ORGANIZATION
Texas
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

SOLE VOTING POWER

5.

8. SHARED DISPOSITIVE POWER

1,506,700

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,506,700 (1)

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

[_]

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.8%

12. TYPE OF REPORTING PERSON*

6.

7.

SHARED VOTING POWER

SOLE DISPOSITIVE POWER

1,506,700

PN

(1) This number does not include 250,000 of the Issuer's Common Stock Purchase Warrants which are not exercisable because their exercise is currently subject to a 4.99% beneficial ownership limitation.

CUSI	P No. 285192100		
1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	Bonanza Master Fund, Ltd.		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*	(a) (b)	[_] [x]
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Cayman Islands		
NUMBI	ER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WIT	Н	
5.	SOLE VOTING POWER		
	0		
6.	SHARED VOTING POWER		
	1,506,700		
7.	SOLE DISPOSITIVE POWER		
	0		
8.	SHARED DISPOSITIVE POWER		
	1,506,700		
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSO	N	
	1,506,700(1)		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTA	IN SH	ARES*
			[_]
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
	9.8%		
12.	TYPE OF REPORTING PERSON*		
	CO		
(1)	This number does not include 250,000 of the Issuer's Common Warrants which are not exercisable because their exercise i subject to a 4.99% beneficial ownership limitation.	Stoc s cur	k Purchase rently

CUSIP No.		
Item 1(a).	. Na	me of Issuer:
	El	ectro-Optical Sciences, Inc. (MELA)
Item 1(b).	Ad	dress of Issuer's Principal Executive Offices:
	3	West Main Street, Suite 201, Irvington, New York 10533
Item 2(a).	. Na	me of Person Filing:
()		nanza Capital, Ltd.
		nanza Master Fund, Ltd.
Item 2(b).	Ad	dress of Principal Business Office, or if None, Residence:
	Da	0 Crescent Court, Suite 250 llas, Texas 75201
Item 2(c).	Ci	tizenship:
		nanza Capital, Ltd Texas nanza Master Fund, Ltd Cayman Islands
Them 0(d)		+1f 01f 0iti
Item 2(d).		tle of Class of Securities:
Item 2(e).	CU	SIP Number:
	_	5192100
Item 3.		This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) (c), Check Whether the Person Filing is a:
(a)	г 1	
/ h \	L_J	Broker or dealer registered under Section 15 of the Exchange Act.
(b)	[_]	Broker or dealer registered under Section 15 of the Exchange Act. Bank as defined in Section 3(a)(6) of the Exchange Act.
(c)		
(c)	[_]	Bank as defined in Section 3(a)(6) of the Exchange Act. Insurance company as defined in Section 3(a)(19) of the Exchange
(c)	[_] [_]	Bank as defined in Section 3(a)(6) of the Exchange Act. Insurance company as defined in Section 3(a)(19) of the Exchange Act. Investment company registered under Section 8 of the Investment
(c) (d) (e)	[_] [_] [_]	Bank as defined in Section 3(a)(6) of the Exchange Act. Insurance company as defined in Section 3(a)(19) of the Exchange Act. Investment company registered under Section 8 of the Investment Company Act.
(c) (d) (e) (f)	[_] [_] [_]	Bank as defined in Section 3(a)(6) of the Exchange Act. Insurance company as defined in Section 3(a)(19) of the Exchange Act. Investment company registered under Section 8 of the Investment Company Act. An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E); An employee benefit plan or endowment fund in accordance with
(c) (d) (e) (f)	[_] [_] [_] [_] [_]	Bank as defined in Section 3(a)(6) of the Exchange Act. Insurance company as defined in Section 3(a)(19) of the Exchange Act. Investment company registered under Section 8 of the Investment Company Act. An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E); An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F); A parent holding company or control person in accordance with
(c) (d) (e) (f)	[_] [_] [_] [_] [_] [_]	Bank as defined in Section $3(a)(6)$ of the Exchange Act. Insurance company as defined in Section $3(a)(19)$ of the Exchange Act. Investment company registered under Section 8 of the Investment Company Act. An investment adviser in accordance with Rule $13d-1(b)(1)(ii)(E)$; An employee benefit plan or endowment fund in accordance with Rule $13d-1(b)(1)(ii)(F)$; A parent holding company or control person in accordance with Rule $13d-1(b)(1)(ii)(G)$; A savings association as defined in Section $3(b)$ of the Federal
(c) (d) (e) (f) (g) (h) (i)	[_] [_] [_] [_] [_] [_]	Bank as defined in Section 3(a)(6) of the Exchange Act. Insurance company as defined in Section 3(a)(19) of the Exchange Act. Investment company registered under Section 8 of the Investment Company Act. An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E); An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F); A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G); A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act; A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment
(c) (d) (e) (f) (g) (h) (i)	[] [] [] [] [] [] [] []	Bank as defined in Section 3(a)(6) of the Exchange Act. Insurance company as defined in Section 3(a)(19) of the Exchange Act. Investment company registered under Section 8 of the Investment Company Act. An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E); An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F); A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G); A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act; A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act; Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

(a) Amount beneficially owned:

	Bonan	za Master Fund, Ltd 1,506,700	
(b)	Perce	nt of class:	
(c)	Numbe	r of shares as to which such person has:	
Bonanza	Capita.	1, Ltd.:	
	(i)	Sole power to vote or to direct the vote	0
	(ii)	Shared power to vote or to direct the vote	1,506,700
	(iii)	Sole power to dispose or to direct the disposition of	0
	(iv)	Shared power to dispose or to direct the disposition of	1,506,700
Bonanza	Master	Fund, Ltd.:	
	(i)	Sole power to vote or to direct the vote	0
	(ii)	Shared power to vote or to direct the vote	1,506,700
	(iii)	Sole power to dispose or to direct the disposition of	0
	(iv)	Shared power to dispose or to direct the disposition of	1,506,700
Item 5.	Owner:	ship of Five Percent or Less of a Class.	
hereof t	he rep	tatement is being filed to report the fact that orting person has ceased to be the beneficial ow f the class of securities check the following [ner of more than
	Not a	pplicable 	
Item 6.	Owner	ship of More Than Five Percent on Behalf of Anot	her Person.
direct t securiti item and person s company	he rece es, a : , if s hould l registe	her person is known to have the right to receive eipt of dividends from, or the proceeds from the statement to that effect should be included in r uch interest relates to more than five percent of be identified. A listing of the shareholders of ered under the Investment Company Act of 1940 or nefit plan, pension fund or endowment fund is no	e sale of, such response to this of the class, such an investment the beneficiaries
	Not a	pplicable	
Item 7.	Ident: Secur: Person	, , ,	
pursuant exhibit subsidia	to Ru statin ry. I	nt holding company or Control person has filed the 13d-1(b)(1)(ii)(G), so indicate under Item 3(g the identity and the Item 3 classification of fa parent holding company or control person has ant to Rule 13d-1(c) or Rule 13d-1(d), attach are	g) and attach an the relevant filed this

Not applicable

Item 8. Identification and Classification of Members of the Group.

the identification of the relevant subsidiary.

If a group has filed this schedule pursuant to s.240.13d-1(b)(1)(ii)(J), so indicate under Item 3(j) and attach an exhibit stating the identity and Item 3 classification of each member of the group. If a group has filed this schedule pursuant to s.240.13d-1(c) or s.240.13d-1(d), attach an exhibit stating the identity of each member of the group.

Not	а	ιр	p.	Li	C	al	1	e																																													
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Item 9. Notice of Dissolution of Group.

Notice of dissolution of a group may be furnished as an exhibit stating the date of the dissolution and that all further filings with respect to transactions in the security reported on will be filed, if required, by members of the group, in their individual capacity. See Item 5.

Not	а	ιp	p.	1	i	а	ιb	1	е																																													
		-	-	-		-	-	-		 	-	-	-	 	 	 	 	 -	-	-	-	-	-	-	 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	 	 	 	-	-	-	 	-

Item 10. Certifications.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having such purpose or effect.

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.

August 8, 2007 -----(Date)

Bonanza Capital, Ltd.*

By: Bonanza Fund Management, Inc. Its General Partner

By: /s/ Bernay Box
Bernay Box
President

Bonanza Master Fund, Ltd.*

By: Bonanza Capital, Ltd. Its General Partner

By: Bonanza Fund Management, Inc. Its General Partner

By: /s/ Bernay Box
Bernay Box
President

Note. Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties for whom copies are to be sent.

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

 * The Reporting Persons disclaim beneficial ownership in the Shares reported herein except to the extent of their pecuniary interest therein.

AGREEMENT

The undersigned agree that this Schedule 13G dated August 8, 2007 relating to the Common Stock of Electro-Optical Sciences, Inc. (MELA) shall be filed on behalf of the undersigned.

Bonanza Capital, Ltd.*

By: Bonanza Fund Management, Inc. Its General Partner

By: /s/ Bernay Box
Bernay Box
President

Bonanza Master Fund, Ltd.*

By: Bonanza Capital, Ltd. Its General Partner

By: Bonanza Fund Management, Inc. Its General Partner

By: /s/ Bernay Box
Bernay Box
President