## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL
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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).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person <sup>*</sup> Xiao Deming				. Issuer Name and T <u>IONOLITHIC</u> MPWR ]					all applicable) Director	10% (	Person(s) to Issuer	
(Last) (First) (Middle) 79 GREAT OAKS BLVD			· ·	. Date of Earliest Tra 8/09/2012	nsaction	(Mon	th/Day/Year)	X	Officer (give title below) Pres. of MPS 2	below	<i>'</i>	
(Street) SAN JOSE CA 9511 (City) (State) (Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Indiv Line) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Table I -	Non-Derivati	ve Securities A	cquired	l, Di	sposed of	, or Be	eneficially	Owned		
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Disposed O 5)			5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
					Code	v	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)
Common Stoc	k		08/09/2012		<b>S</b> <sup>(1)</sup>		1,915	D	\$20.46	126,986	D	
Common Stoc	k		08/10/2012		<b>S</b> <sup>(1)</sup>		1,786	D	\$20.7344	125,200	D	
Common Stoc	k		08/09/2012		M <sup>(2)</sup>		12,108	A	\$8.05	22,108	I	by Spouse
Common Stoc	k		08/09/2012		<b>S</b> <sup>(2)</sup>		12,108	D	\$20.9	10,000	I	by Spouse
Common Stoc	k		08/09/2012		<b>M</b> <sup>(2)</sup>		14,329	A	\$8.05	24,329	I	by

 08/09/2012
 s<sup>(2)</sup>
 14,329
 D
 \$20.9
 10,000
 I

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

## (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Incentive Stock Option (right to buy)	\$8.05	08/09/2012		M <sup>(2)</sup>			41,329	03/28/2006	04/26/2015	Common Stock	41,329	\$0.0	0.0	I	by Spouse
Non- Qualified Stock Option (right to buy)	\$8.05	08/09/2012		M <sup>(2)</sup>			12,108	03/28/2005	04/26/2015	Common Stock	12,108	\$0.0	0.0	I	by Spouse

Explanation of Responses:

Common Stock

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

2. In accordance with the reporting person's 10b5-1 trading plan.

\*\* Signature of Reporting Person Date

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

 $^{\ast}$  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.

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