FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL

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Estimated average burden
hours per response: 0.5

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 Addre	ess of Reporting Pers	son <sup>*</sup>		2. Issuer Name and				MO IN			Relationship of Rep eck all applicable)	orting Person(s	) to Issuer
Moyer Jame	es C	MONOLITHIC MPWR ]	POW	<u>/EK</u>	SYSIE		X Director	10	)% Owner				
(Last) 6409 GUADAL	(First) (Middle) GUADALUPE MINES ROAD			3. Date of Earliest Tr 09/27/2007	ansaction	(Mor	nth/Day/Year			X Officer (give to below)  Chief IC		ther (specify elow) neer	
(0)	4. If Amendment, Da	te of Orig	inal F	Filed (Month/D	6. Individual or Joint/Group Filing (Check Applicable								
(Street) SAN JOSE CA 95120								Line)  X Form filed by One Reporting Person					
							Form filed by More than One Reporting Person						
(City)	(State)	(Zip)											
				tive Securities A		d, D				_			
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Yea	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 and 5)			r	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)	(,	(1154: 4)
Common Stock			09/27/2007		S <sup>(1)</sup>		100	D	\$24.9	96	297,210	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		100	D	\$25.2	23	297,110	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		300	D	\$25.2	24	296,810	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		100	D	\$25.2	26	296,710	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		200	D	\$25.2	27	296,510	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		300	D	\$25.2	28	296,210	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		300	D	\$25.	.3	295,910	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		400	D	\$25.3	31	295,510	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		100	D	\$25.3	32	295,410	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		400	D	\$25.3	33	295,010	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		900	D	\$25.3	34	294,110	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		100	D	\$25.3	35	294,010	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		100	D	\$25.3	36	293,910	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		400	D	\$25.3	37	293,510	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		200	D	\$25.3	38	293,310	I	by Moyer FamilyTrust
Common Stock			09/27/2007		S <sup>(1)</sup>		100	D	\$25.	4	293,210	I	by Moyer FamilyTrust
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		Tabl	e I - Non-Deriv	ative	Secu	ıritie	s Ac	quire	d, Di	sposed o	f, or B	eneficia	lly Own	ed		
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Ye	ar) E	2A. Deemed Execution Date, if any (Month/Day/Year)		te,   1	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 and 5)			5. Amour Securitie Beneficia Owned Followin	es Fo ally (D In	6. Ownership Form: Direct (D) or ndirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
							Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(msu. 4)	(msu. 4)	
Common Stock			09/27/200	7				S <sup>(1)</sup>		100	D	\$25.41	293,	110	I	by Moyer FamilyTrus
Common Stock			09/27/200	7				S <sup>(1)</sup>		100	D	\$25.45	293,	010	I	by Moyer FamilyTrus
Common Stock			09/27/200	7				S <sup>(1)</sup>		95	D	\$25.55	292,	915	I	by Moyer FamilyTrus
Common Stock			09/27/200	7				S <sup>(1)</sup>		105	D	\$25.56	292,	810	I	by Moyer FamilyTrus
Common Stock			09/27/200	7				S <sup>(1)</sup>		800	D	\$25.57	292,	010	I	by Moyer FamilyTrus
Common Stock			09/27/200	7				S <sup>(1)</sup>		300	D	\$25.58	291,	710	I	by Moyer FamilyTrus
Common Stock			09/27/200	7				S <sup>(1)</sup>		806	D	\$25.59	290,	904	I	by Moyer FamilyTrus
Common Stock			09/27/200	7				S <sup>(1)</sup>		994	D	\$25.6	289,	910	I	by Moyer FamilyTrus
Common Stock			09/27/200	2007				S <sup>(1)</sup>		400	D	\$25.61	289,510		I	by Moyer FamilyTrus
Common Stock		09/27/200	09/27/2007			S <sup>(1)</sup>		200	D	\$25.62	289,310		I	by Moyer FamilyTrus		
Common Stock			09/27/200	7				S <sup>(1)</sup>		100	D	\$25.64	289,	210	I	by Moyer FamilyTrus
Common Stock			09/27/200	7				S <sup>(1)</sup>		600	D	\$25.66	288,	610	I	by Moyer FamilyTrus
Common Stock			09/27/200	7				S <sup>(1)</sup>		200	D	\$25.67	288,	410	I	by Moyer FamilyTrus
Common Stock			09/27/200	7				S <sup>(1)</sup>		200	D	\$25.68	288,	210	I	by Moyer FamilyTrus
		Та	ble II - Derivati (e.g., ρι							oosed of, convertib			y Owned			
Derivative   Conversion   Date   E   Security   or Exercise   (Month/Day/Year)   if		3A. Deemed Execution Date, if any	ecution Date, Transaction Code (Instr.				Expiration (Month/Day		rcisable and Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	Owner Form: Direct or Ind (I) (Ins 4)	(D) Beneficial Ownership irect (Instr. 4)	
				Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amount or Number of Shares				

## Explanation of Responses:

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

By: Rick Neely For: James Moyer

09/28/2007

\*\* Signature of Reporting Person

Date

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

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.

 $<sup>^{\</sup>star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).