FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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 Moyer James C (Last) (First) (Mide 6409 GUADALUPE MINES ROAD	2. Issuer Name and MONOLITHIC [MPWR] 3. Date of Earliest T 08/13/2008 4. If Amendment, Da	C POV	VEF	R SYSTE	NC (. Relationship of Rej Check all applicable) X Director X Officer (give below) Chief IC	10 title O be Design Engin)% Owner ther (specify elow) neer			
(Street) SAN JOSE CA 951 (City) (State) (Zip)						Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I	- Non-Derivat	tive Securities /	Acquire	ed, D)isposed o	of, or E	Benefici	ally 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 Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			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)	(1150. 4)		
Common Stock	08/13/2008		S ⁽¹⁾		150	D	\$24.44	23,560	I	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		200	D	\$24.60	5 23,360	I	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		100	D	\$24.71	23,260	I	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		100	D	\$25.15	5 23,160	Ι	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		100	D	\$25.17	23,060	Ι	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		100	D	\$25.26	5 22,960	Ι	by Moyer FamilyTrust	
Common Stock 08/13/20			S ⁽¹⁾		100	D	\$25.4	22,860	Ι	by Moyer FamilyTrust	
Common Stock 08/13/200			S ⁽¹⁾		100	D	\$25.48	3 22,760	Ι	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		200	D	\$25.49	22,560	Ι	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		300	D	\$25.51	22,260	Ι	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		100	D	\$25.52	22,160	Ι	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		100	D	\$25.53	22,060	Ι	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		100	D	\$25.50	5 21,960	I	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		100	D	\$25.56	5 21,860	I	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		100	D	\$25.57	5 21,760	I	by Moyer FamilyTrust	
Common Stock	08/13/2008		S ⁽¹⁾		200	D	\$25.58	3 21,560	Ι	by Moyer FamilyTrust	

1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Yea	2A. Deem Execution if any	2A. Deemed Execution Date,	3. Transaction Code (Instr. 8)		4. Securitie	s Acquir	f, or Beneficial Acquired (A) or (D) (Instr. 3, 4 and		ntof 6 s F ally (1	Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
						v	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	ion(s)	(Instr. 4)	(Instr. 4)	
Common	Stock		08/13/2008			S ⁽¹⁾		100	D	\$25.585	21,4	460	Ι	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		100	D	\$25.6	21,3	360	Ι	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		200	D	\$25.61	21,1	160	Ι	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		100	D	\$25.62	21,0)60	Ι	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		200	D	\$25.625	20,8	360	Ι	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		200	D	\$25.63	20,6	560	Ι	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		200	D	\$25.635	20,4	460	Ι	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		300	D	\$25.64	20,1	160	Ι	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		100	D	\$25.645	20,0)60	Ι	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		200	D	\$25.655	19,8	360	Ι	by Moyer FamilyTrus
Common Stock		08/13/2008			S ⁽¹⁾		300	D	\$25.68	19,5	560	Ι	by Moyer FamilyTrus	
Common	Stock		08/13/2008			S ⁽¹⁾		200	D	\$25.69	19,3	360	Ι	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		200	D	\$25.7	19,1	160	I	by Moyer FamilyTrus
Common	Stock		08/13/2008			S ⁽¹⁾		100	D	\$25.725	19,0	060	Ι	by Moyer FamilyTrus
		Та	ble II - Derivativ (e.g., pu)	/e Securit ts, calls, \	ties Ac warran	quired, ts, opti	Dis ons	posed of, , converti	or Be ble see	neficially curities)	Owned			
1. Title of 2. 3. Transaction Derivative Conversion Date		3A. Deemed	5. Numb	er 6. Da	te Ex	ercisable and Date	I 7. Titl	· · · ·		9. Number derivative	of 10. Owners	11. Nature		

Security (Instr. 3)	Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transact Code (In 8)		Derivative (Month/Day/Year) Securities Acquired (A) or		Amount of Securities I Underlying S		of Derivative Security (Instr. 5)	Beneficially Owned Following Reported	Ownership Form: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	L		
								, 4					Transaction(s) (Instr. 4)			
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					

Explanation of Responses:

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

By: Adriana Chiocchi For: James Moyer

** Signature of Reporting Person Date

08/14/2008

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

 * 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.

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