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

Name and Address of Reporting Person* Xiao Deming						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									5. Relationship of Repo (Check all applicable) Director X Officer (give tit			10% O	wner			
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					3. Date of Earliest Transaction (Month/Day/Year) 08/03/2007									VP, Operations								
(Street) SAN JOSE CA 95120					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting							
(City)	(St	tate) (Zip)													Person						
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					Exe if a	2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction D Code (Instr. ar			4. Securities Acquired (Disposed Of (D) (Instr. : and 5)			5. Amo Securiti Benefic Owned	ies ially	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)				
								Code	٧	Amount	(A) (D)	or Pr	ice	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(111501.4)				
Common	08/03/	2007				A		9,500) A		\$ <mark>0</mark>	26	5,375		D							
Common Stock															86,333		I		By Parent			
Common Stock															2,	,568			by Spouse ⁽²⁾			
	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)	curity or Exercise (Month/Day/Year) if any				Code (In	Fransaction of Code (Instr. Deriva			Expiration Date (Month/Day/Year) S U D S S at				7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		. Price f erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership			
					Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amou or Numl of Share	ber								
Non- Qualified Stock Option (right to buy)	\$18.77	08/03/2007			A		40,000		08/03/2009 ⁽³	3) 0	8/03/2014	Common Stock	40,0	00	\$18.77	40,000		D				
Non- Qualified Stock Option (right to buy)	\$18.77	08/03/2007			A		20,000		08/03/2009 ⁽³	3) 0	8/03/2014	Common Stock	20,0	00	\$18.77	20,000		I	by Spouse ⁽⁴⁾			

Explanation of Responses:

- 1. 50% of the Performance Units are subject to vest on the first anniversay of the Grant Date and 50% of the Performance Units are subject to vest on the second anniversary of the Grant Date, provide that the Grantee continues to be a service provider on such dates.
- 2. Represent shares owned by the reporting person's spouse.
- 3. Fifty percent (50%) of the Shares subject to the Option shall vest twenty-four (24) months after the Grant Date, and 1/48 of the Shares subject to the Option shall vest monthly thereafter on the same day of the month as the Grant Date, subject to the Optionee continuing to be a Service Provider on such dates.
- 4. Represents options owned by the reporting person's spouse.

By: Rick Neely For: Deming Xiao

08/07/2007

** Signature of Reporting Person

Date

- * 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.