FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL OMB Number 3235-0287 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 Ad	dress of Reportin	g Person [*]	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
(Last) (First) (Middle)		()	. [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 08/09/2007	X X	Director Officer (give title below)	10% Owner Other (specify below)				
6409 GUADA (Street)	LUPE MINES	ROAD	 4. If Amendment, Date of Original Filed (Month/Day/Year) 	6. Indi Line)	Chief IC Design	0				
SAN JOSE	CA (State)	95120	-	X	Form filed by One Re Form filed by More th Person					
(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially 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) or Disposed Of (D) (Instr. 3, 4 and 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)	(1150. 4)
Common Stock	08/09/2007		S ⁽¹⁾		100	D	\$18.77	325,994	I	by Moyer FamilyTrust
Common Stock	08/09/2007		S ⁽¹⁾		100	D	\$18.36	325,894	I	by Moyer FamilyTrust
Common Stock								890,569	D	
Common Stock								518,504	Ι	By Jointly w/Spouse

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		3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transac Code (In 8)		of Deriv Secu Acqu (A) of Dispo of (D)	erivative ecurities cquired A) or isposed f (D) nstr. 3, 4		Amour Securi Underl Deriva	nt of ties ying tive ty (Instr.	of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
				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: Saria Tseng For: James Moyer

08/13/2007

** Signature of Reporting Person Date

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.

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.