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
П	to Section 16. Form 4 or Form 5
ш	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* Elmiger Eugen J						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									heck all ap	tionship of Reportin all applicable) Director Officer (give title		10% C	
(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 10/23/2012										below)		below)	
(Street) SAN JOS	E CA	CA 95119				4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting				
(City)	(Sta	ate) (Z	ľip)			Person													
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day						Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired Disposed Of (D) (Instr. and 5)				Secu Bend Own		Forn (D) o	rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	(,	A) or D)	Price	Repo	Following Reported Transaction(s) (Instr. 3 and 4)		u . 4)	(11150: 4)	
Common Stock 10/23					2012		A		5,000(1)		Α	\$ <mark>0</mark>	.0	5,000		D			
	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)	tive Conversion or Exercise (Month/Day/Year) Trice of Derivative Security		4. Transac Code (Ir 8)	e (Instr. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			Amount of Securities Underlying Derivative Security (Instr 3 and 4)		ount nber	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	/ D O (I	O. Ownership Form: Direct (D) or Indirect I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

1. According to the Company's 2004 Equity Incentive Plan and the Board Compensation Schedule as adopted by the Board, each New Outside Director will be granted Restricted Stock Units, on or about the date on which such person first becomes an Outside Director. 50% of the shares subject to vest on each anniversary of the grant date, provided that the Participant continues to serve as a Director on such dates.

By: Saria Tseng For: Eugen Elmiger

10/25/2012

** 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.