FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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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 ar	MO	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]										all app	oplicable)		Person(s) to Issuer 10% Owner Other (specify					
(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 08/02/2012									Λ	belov	v) VP & Gene	eral C	below) Counsel	
(Street) SAN JOS	·					4. If Amendment, Date of Original Filed (Month/Day/Year)									Indiv ne) X	Form filed by One Reporting Person Form filed by More than One Reporting				
(City)	(Sta	ate) (Z	Zip)													Pers	on			
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transactic Date (Month/Day/						Execution Date			3. Transaction Code (Instr. 8)		4. Securities Acquired (Disposed Of (D) (Instr. and 5)				3, 4 Secu		cially I	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		((111501. 4)				
Common	Stock	012				S ⁽¹⁾		901		D	\$19		96,970			D				
Common	012				S ⁽¹⁾		324		D	\$19.24		4 96,646			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)	/e Conversion Date Execution Date, or Exercise (Month/Day/Year) if any		4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Date Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Instra 3 and 4) Amou or Numb of Title Share		nstr. nount mber			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	O F D O (I)	Ownership form: Direct (D) or Indirect () (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

<u>Saria Tseng</u> <u>08/03/2012</u>

** 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.