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

1. Name and Address of Reporting Person [*]					MON	2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]										all app Direc		ng Pe	10% C)wner
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 08/03/2011									X	Offic belov	,	FO	Other below)	(specify
(Street) SAN JOS (City)	SAN JOSE CA 95120				4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Indivi ne) X	Form Form	ual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) Date (Month/Day/					/Year) i	Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquire Disposed Of (D) (Inst. and 5)						3,4 S		ecurities F eneficially (I wned Ir		wnership m: Direct or rect (I) tr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A (D) or)	Price	Rep e Trar		saction(s) 3 and 4)		u. 4)	(1130. 4)
Common Stock 08/03/20					011	11			S ⁽¹⁾		279		D \$14.		.17 85,489			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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	eemed tion Date, h/Day/Year)		Transaction Code (Instr. 3)		mber ative rities ired . 3, 4 .) (D)	6. Date Exercisable a Expiration Date (Month/Day/Year) Date Expirati Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amour or Numbe f Title Shares		ount	8. Price of Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		0. Dwnership Form: Direct (D) or Indirect I) (Instr. I)	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.

By: Saria Tseng For: Meera Rao

08/03/2011

** 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.

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