FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
haura nar raananaa	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 Address of Reporting Person* MCBURNIE DOUGLAS M						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									(Check all appl		licable)		rerson(s) to Issuer	
(Last) 6409 GU	st) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year) 08/14/2009										Officer (give title below)			Other (below)	specify
(Street)						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person					
SAN JOS	SE CA	A 95120													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. Transaction Date (Month/Day/Year					ear) it	2A. Deemed Execution Date, if any (Month/Day/Year)			3. Transaction Code (Instr. 8)			4. Securities Disposed O		nd 5) Securit Benefic Owned		cially I	Fori (D) (Indi	m: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership	
									c.	ode	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)
Common Stock			08/14/200	9					M		10,000	A	\$16.9	16.97		10,000		D		
Common Stock			08/14/200	9					S		10,000	D	\$22.61	2.6137(1)		0		D		
		Ta	able	e II - Deriva (e.g., p								sposed of, , converti				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exe if a	Deemed cution Date, ny nth/Day/Year)	4. Trans Code 8)	action of Deriv Secu Acqu (A) o Disp of (D		rivative curities quired) or sposed (D) str. 3,	e s	6. Date Exer Expiration I (Month/Day		Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		of Der Sec	Price rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code		/ (A	(D)		Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares						
Non- Qualified Stock Option (right to buy)	\$16.97	08/14/2009			М			10,00	00	05/24/2	2008	05/24/2014	Commor Stock	10,000	0	\$0	20,000		D	

Explanation of Responses:

1. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$22.60 to \$22.67. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Adriana Chiocchi For:
Douglas McBurnie

08/17/2009

** 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.