FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

hours per response:

OMB Number: 3235-0287 Estimated average burden

0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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* MIDDLETON FRED A				ssuer Name and Ti ereotaxis, Inc			ng Symbol		ck all applicable)	orting Person(s) to Issuer 10% Owner			
(Last) (First) (Middle) 400 SOUTH EL CAMINO REAL SUITE 1200 (Street) SAN MATEO CA 94402-1708 (City) (State) (Zip)				Date of Earliest Tran 123/2013	nsaction	(Mon	th/Day/Year)		Officer (give t below)		ther (specify elow)		
			4. If	Amendment, Date	of Origi	inal Fi	led (Month/Da	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
	Table I - I	Non-Deriva	tive	Securities A	quire	d, D	isposed o	f, or B	enefic	cially	Owned		
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Y		2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired Disposed Of (D) (Instr. 5)		d (A) or r. 3, 4 an	d Se Be	Amount of ecurities eneficially wned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
					Code	v	Amount	(A) or (D)	Price	Tr	eported ransaction(s) nstr. 3 and 4)		(Instr. 4)
Common Stock		08/23/201	13		S		12,200	D	\$3.6	7	75,872	D	
Common Stock		08/23/201	13		S		400	D	\$3.6	8	75,472	D	
Common Stock		08/23/202	13		S		2,000	D	\$3.6	7	0	I	Middleton McNeil Retirement Trust
Common Stock											1,256,402	I	Sanderling Venture Partners VI Co- Investment Fund, L.P.
Common Stock											40,673	I	Sanderling Ventures Management VI
Common Stock											6,358	I	Sanderling VI Limited Partnership
Common Stock											5,335	I	Sanderling VI Beteiligungs GmbH & Co. KG
Common Stock											1,500	I	Sanderling Mgmt. LLC 401K Pension Profit Sharing Plan
Common Stock											53,275	I	Sanderling IV Biomedical Co- Investment Fund, L.P.
Common Stock											11,097	I	Sanderling V Beteiligungs GmbH &

1. Title of Security (Instr. 3)		2. Transac Date (Month/Da		2A. Deemed Execution Date, if any (Month/Day/Year)		ıte,	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 Reported Transaction(s) (Instr. 3 and 4)		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
							Code V Amount		(A) or (D)	Price	(Instr. 4)						
Common Stock												39,7	16]	I	Sanderling V Biomedical Co- Investment Fund, L.P.	
Common	Stock												11,9	56]		Sanderling V Limited Partnership
Common Stock												67,7	90	1	I	Sanderling Venture Partners V Co- Investment Fund, L.P.	
Common Stock												22,4	51]	I	Sanderling Venture Partners IV Co- Investment Fund	
Common Stock												82		I		Sanderling Ventures Managemer V	
		Та	able II - Deriva (e.g., p							osed of, convertib			y Owned				
Derivative Conversion Date Security or Exercise (Month/Day/Year) i		3A. Deemed Execution Date, if any (Month/Day/Year)	tion Date, Transaction Code (Instr.					6. Date Exercisable an Expiration Date (Month/Day/Year)		Amount of Securities		8. Price of Derivative Security (Instr. 5)	derivati Securit Benefic Owned Followi Reporte	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		11. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code		(A)	(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares						

Explanation of Responses:

Remarks:

/s/ Karen W. Duros, Attorney-

in-Fact

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

^{*} 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).