Micro Therapeutics, Inc.
Special 510(k) (modification to K030688 and K031992)
Tip-Shape Echelon™ Micro Catheter August 6, 2004

SEP - 2 2004

## 4. 510(k) Summary

TRADE NAME	Tip-Shape Echelon™ Micro Catheter	
GENERIC NAME	Catheter, Continuous Flush	
CLASSIFICATION	Class II (21 CFR 870.1210) and Class II (21 CFR 870.4450)	
SUBMITTED BY	Micro Therapeutics, Inc.	Marilyn R. Pourazar
	2 Goodyear	Regulatory Affairs
	Irvine, CA 92618	(949) 837-3700 x293
PREDICATE	MTI Echelon™ Micro Catheter (K030688)	
DEVICE(S)	MTI Echelon™ Micro Catheter (K031992)	
	The Tip-shape Echelon Micro Catheter is an endhole, single-lumen	
DEVICE	catheter designed to be introduced over a steerable guidewire into the	
DESCRIPTION	vasculature. The proximal end of the catheter incorporates a standard	
	luer adapter to facilitate the attachment of accessories. The catheter	
	has a semi-rigid proximal shaft which transitions into the flexible distal shaft to facilitate the advancement of the catheter in the	
	anatomy. Dual radiopaque markers at the distal end facilitate	
	fluoroscopic visualization. The outer surface of the catheter is coated to increase lubricity.	
INDICATIONS	The Echelon TM Micro Catheter is intended to access peripheral and	
FOR USE	neuro vasculature for the controlled selective infusion of physician-	
	specified therapeutic agents such as embolization materials and of	
	diagnostic materials such as contrast media.	
	This is the same intended use as predicate devices Echelon Micro	
	Catheter K030688 and K031992.	
TESTING	In-vitro performance testing of the MTI Tip Shape Echelon <sup>TM</sup> Micro	
	Catheter included Dimensional an	
	Strength, Pressure Testing, Guide	
		ip offset distances measurement and
	Tip length measurement specification. The biocompatibility of the MTI	
	Catheter was verified in accordant	
	Evaluation of Medical Devices.	•
	biocompatibility of the catheter w	
	communicating, blood contact, li	
	on minimum, blood condet, in	miles exposure (2) moy device.
SUMMARY OF	The MTI Tip Shape Echelon™ Micro Catheter is substantially	
SUBSTANTIAL	equivalent to the predicate devices in intended use and principles of	
<b>EQUIVALENCE</b>	operation.	



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

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Ms. Marilyn R. Pourazar Manager of Regulatory Affairs Micro Therapeutics, Inc. 2 Goodyear Irvine, CA 92618

Re: K042187

Tip-Shape Echelon Micro Catheter Regulation Number: 21 CFR 870.1210

Regulation Name: Continuous Flush Catheter

Regulatory Class: Class II (two)

Product Code: KRA Dated: August 6, 2004 Received: August 12, 2004

Dear Ms. Pourazar:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050. This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4648. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address

http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

() Bram D. Zuckerman, M.D.

Donna R. Vichner

Director

Division of Cardiovascular Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

## **Indications for Use**

510(k) Number (if known): <b>K042187</b>
Device Name:_MTI Tip-Shape Echelon™ Micro Catheter
Indications For Use:
The <b>Tip-Shape Echelon™ Micro Catheter</b> is intended to access peripheral and neuro vasculature for the controlled selective infusion of physician-specified therapeutic agents such as embolization materials and of diagnostic materials such as contrast media.
Prescription UseX AND/OR Over-The-Counter Use (Part 21 CFR 801 Subpart D) (21 CFR 807 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE)
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