

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center – WO66-G609 Silver Spring, MD 20993-0002

September 7, 2016

StelKast, Incorporated % Mr. David Stumpo Vice President of Product Development 200 Hidden Valley Road McMurray, Pennsylvania 15317

Re: K162222

Trade/Device Name: GENflex2 Total Knee System

Regulation Number: 21 CFR 888.3560

Regulation Name: Knee joint patellofemorotibial polymer/metal/polymer semi-constrained

cemented prosthesis

Regulatory Class: Class II Product Code: JWH, OIY Dated: August 5, 2016 Received: August 8, 2016

Dear Mr. Stumpo:

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. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to 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); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); 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.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely,

Mark N. Melkerson -S

Mark N. Melkerson Director Division of Orthopedic Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

510(k) Number (if known)

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement below.

K162222
Device Name
GENflex2 Total Knee System
Indications for Use (Describe)
The GENFlex2 Total Knee System is intended for:
• Total knee replacement due to osteoarthritis, osteonecrosis, rheumatoid arthritis, and/or post-traumatic degenerative problems.
• Revision of failed previous reconstructions where sufficient bone stock and soft tissue integrity are present.
The device is intended for cemented use only.
Type of Llee (Select one or both on applicable)
Type of Use (Select one or both, as applicable)
Prescription Use (Part 21 CFR 801 Subpart D) Over-The-Counter Use (21 CFR 801 Subpart C)
CONTINUE ON A SEPARATE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

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510(k) Summary

Manufacturer: StelKast, Inc.

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Contact: Mr. David Stumpo

Vice President of Product Development

Prepared By: Musculoskeletal Clinical Regulatory Advisers, LLC

1331 H Street, NW, 12th Floor

Washington, DC 20005 Phone: 202.552.5800 Fax: 202.552.5798

Date Prepared: August 31, 2016

Device Trade Name: GENflex2 Total Knee System

Device Common Name: Total Knee Replacement System

Classification: 21 CFR 888.3560

Knee joint patellofemorotibial polymer/metal/polymer semi-

constrained cemented prosthesis

Class II

Product Codes: JWH, OIY

Indications for Use: The GENFlex2 Total Knee System is intended for:

 Total knee replacement due to osteoarthritis, osteonecrosis, rheumatoid arthritis, and/or post-traumatic degenerative problems.

• Revision of failed previous reconstructions where sufficient bone stock and soft tissue integrity are present.

The device is intended for cemented use only.

Device Description:

The GENflex2 System is a cemented total knee joint replacement system comprised of modular components with varying sizes available for each component. The purpose of this Special 510(k) is to modify the geometries of the Posterior Stabilized and the Cruciate Retaining tibial insert and femoral component. These components are manufactured from EXp Vitamin E Polyethylene, Conventional Polyethylene and Cobalt Chrome Alloy. Each component is available in a range of sizes that complement each other.

Predicate Devices:

The modified GENflex2 Total Knee System is substantially equivalent to the predicate Proven Total Knee System (K980276, K063211, K122883) with respect to intended use, materials, geometry, range of available sizes, methods of fixation, and performance characteristics. The information summarized in the Design Control Activities Summary demonstrates that the modified geometries of the tibial insert femoral component meet the pre-determined acceptance criteria for the verification activities.

Substantial Equivalence:

Static and fatigue A/P shear testing and engineering analyses of contact area were performed on the modified components of the GENflex2 Total Knee System and the predicate Proven Total Knee System. All results demonstrate that the modified device performs similarly to the predicate device.

Limulus Amebocyte Lysate *NCN+'testing was performed on the GENflex2 implants to establish thev'ty g'f gxkeg'o ggw'r {tqi gp'rko k' specifications.