I/We claim:

1. An apparatus, comprising:
   (a) a body;
   (b) an outer cannula extending distally from the body along a longitudinal axis, wherein the outer cannula is fixedly secured to the body, wherein the outer cannula includes:
      (i) a proximal portion having a first cross-dimension, and
      (ii) a distal portion having at least one second cross-dimension smaller than the first cross-dimension, wherein the distal portion is configured to guide the cylindrical proximal portion into a trocar port for advancing the outer cannula into an eye of a patient;
   (c) an inner cannula extending along the longitudinal axis and slidably disposed in the outer cannula for translating longitudinally relative to the outer cannula, wherein the inner cannula includes:
      (i) an open proximal end,
      (ii) an open distal end configured to pierce a retina of the eye, and
      (iii) a lumen extending between the open proximal end and the open distal end, wherein the lumen is configured to communicate at least one fluid from the open proximal end to the open distal end for delivering the at least one fluid into a subretinal region of the eye.

2. The apparatus of claim 1, wherein the distal portion tapers radially inwardly in a distal direction.

3. The apparatus of claim 1, wherein the distal portion curves radially inwardly in a distal direction.

4. The apparatus of any of claims 1 through 3, wherein the proximal portion is generally cylindrical.

5. The apparatus of claim 4, wherein the distal portion is generally frustoconical.

6. The apparatus of any of claims 1 through 5, wherein the proximal portion defines a proximal opening, wherein the distal portion defines a distal opening smaller than the proximal opening.

7. The apparatus of claim 6, wherein the distal opening is configured to maintain centration of the inner cannula relative to the outer cannula during longitudinal translation of the inner cannula relative to the outer cannula.

8. The apparatus of any of claims 1 through 7, wherein the open distal end is beveled.

9. The apparatus of claim 8, wherein the open distal end is oriented relative to the longitudinal axis at an angle of about 45 degrees.

10. The apparatus of any of claims 1 through 9, wherein the outer cannula is rigid.

11. The apparatus of any of claims 1 through 10, wherein the outer cannula comprises a metallic material.

12. The apparatus of claim 11, wherein the outer cannula comprises surgical stainless steel.

13. The apparatus of any of claims 1 through 12, wherein the inner cannula is flexible.

14. The apparatus of any of claims 1 through 13, wherein the inner cannula comprises a polymeric material.

15. The apparatus of claim 14, wherein the inner cannula comprises polyimide.

16. The apparatus of any of claims 1 through 15, the at least one fluid including first

and second fluids, the apparatus further comprising first and second proximal fluid supply passageways configured to be selectively fluidly coupled to the lumen of the inner cannula for supplying the first and second fluids, respectively, to the lumen.